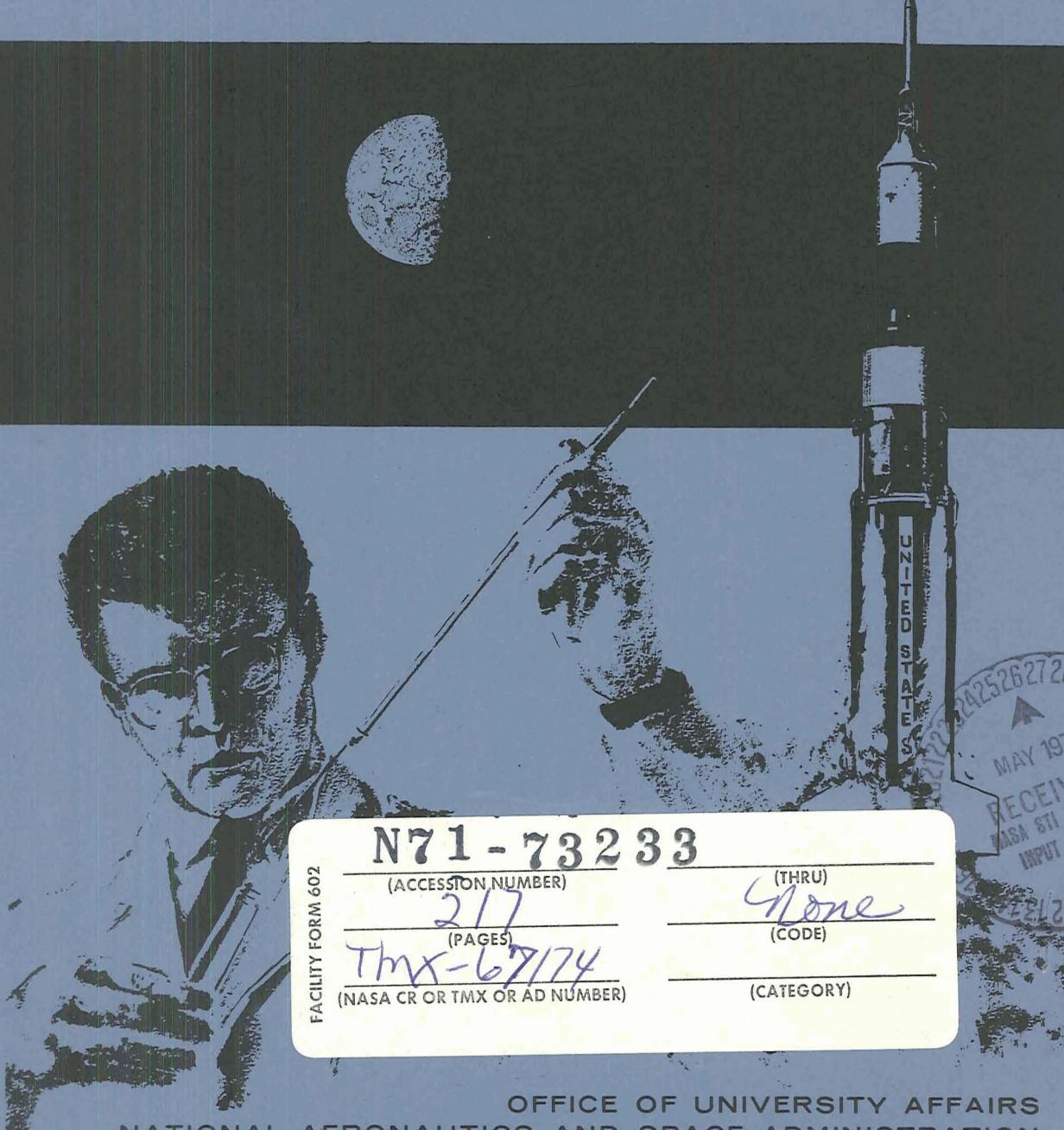


NASA
OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

CUMULATIVE FY 1959 THROUGH FY 1970



FACILITY FORM 602

N71-73233	
(ACCESSION NUMBER)	217
(PAGES)	217
(NASA CR OR TMX OR AD NUMBER)	TMX-67174
(THRU)	None
(CODE)	
(CATEGORY)	



OFFICE OF UNIVERSITY AFFAIRS
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D. C. 20546

FOR OFFICIAL NASA USE ONLY

Issued: October 1970

National Aeronautics and Space Administration

NASA OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

Cumulative FY 1959 Through FY 1970

**Office of University Affairs
Management Information System**

October 1970

Notice

THIS IS A NASA INTERNAL MANAGEMENT DOCUMENT AND IS NOT FOR GENERAL DISTRIBUTION. IT IS FOR USE BY NASA MANAGERS AND THEIR IMMEDIATE STAFFS.

NASA OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

Cumulative FY 1959 Through FY 1970

P R E F A C E

The University Program Management Information System (MIS), operated by the Office of University Affairs, was created to provide data needed for analyzing the history of support to universities; for reviewing technical and financial trends in sponsored research; and for decision-making regarding the future course of NASA's university relationships.

This report is but one output of the MIS; other related ones include special program analyses and reports required by the Committee on Academic Science and Engineering of the Federal Council for Science and Technology. The data presented here are organized primarily for program evaluation purposes, i.e., the report is oriented to technical policy-makers and program managers, rather than to financial managers. However, as the data are derived from basic agency records (the Status of Contracts and Grants (SCAG) System), reported obligations are consistent with accounting records. Any apparent discrepancies between this report and either NASA procurement or fiscal reports stem, therefore, from the selection criteria for the data and the arrangement of the tables. The main difference is that this document reports only R&D-related obligations to degree-granting educational institutions; these obligations account for about 99% of the funds awarded. Special adjustments were made to properly reflect university projects supported by the Electronics Research Center prior to its disestablishment.

We would like the information in this report to be of maximum usefulness to you. Suggestions for improvements would be particularly appreciated. Comments or inquiries should be directed to W. A. Greene, Chief, Coordination Branch, Office of University Affairs, NASA Headquarters, Washington, D.C. 20546, Telephone: 202-962-3104.



F. B. Smith

Assistant Administrator
for University Affairs

C O N T E N T S

	<u>Page</u>
User's Guide	v
Summary	vii

Statistical Table Descriptors - Obligations:

Table I	By Geographical Region (Summary)	Blue
Table II	By Program Office (Summary)	Yellow
Table III	By State	Green
Table IV	By Institution	Salmon

Analytical Table Descriptors - Obligations:

Table V	By Unique Projects Within Institutions	Blue
Table VI	By Funding Group and Institution	Yellow
Table VII	By Funding Group and Unique Project	Green
Table VIII	By Unique Project and Funding Group	Salmon

Appendices

Appendix 1	Definitions, Notations and Abbreviations	A-1
Appendix 2	Interpreting Disbursement Data	A-2
Appendix 3	Data Base	A-5



USER'S GUIDE

This report is produced in two parts: a cumulative version (Cum. Tables I-VIII), which is an overview of NASA-university relationships since 1959 and a fiscal year version (FY Tables XI-XVIII), which includes only current fiscal year activity. The documents are identically organized in tabular content and format to permit ready comparison and detection of any significant recent departures from the trends of the past several years.

The data are confined to obligations to U. S. degree-granting educational institutions, including the operationally affiliated "educational non-profit" organizations which are integral parts of colleges and universities. As an exception, obligations to foreign institutions appear at the end of Cum. Table IV and FY Table XIV.

Obligations reported in the tables cover all types of R&D-related support to educational institutions, including obligations for onboard flight experiments, facilities and student training for furtherance of research efforts and dissemination of results and information resulting from NASA sponsored efforts: excluded are obligations for training of NASA employees; for miscellaneous non-research purchases and services, generally under \$2,500; and for operation of Federally Funded Research and Development Centers (FFRDC's).

Listings for Electronics Research Center have been adjusted to reflect all actions during FY 70 prior to disestablishment of the installation on June 30, 1970. Transfer of residual ERC accounts to other installations will be accommodated in the FY 71 report.

Obligations for both on-campus and off-campus research, regardless of the state or country in which it is performed, are consolidated within a single institutional name, listed under the region, state or country in which the main campus is located.

Obligations in the cumulative report are net, i.e., de-obligations have been subtracted so the report reflects the total amount of money NASA has made available to institutions during the period covered. The fiscal year report, on the other hand, is designed to show the magnitude of obligations for a particular year. Hence, the fiscal year total is not reduced by subtraction of any de-obligated prior year funds. Columns in Cum. Table II and FY Table XII may not add exactly due to rounding.

Detailed information on individual grants and contracts at specific institutions is available from the Office of University Affairs.

SUMMARY

NASA OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

Cumulative FY 1959 Through FY 1970

<u>Domestic Institutions</u>		<u>Number of Institutions</u>
Project Research	\$ 690M	273
Sustaining University Program	223	174
Apollo Guidance (MIT)	136	1
Foreign Institutions	<u>13</u>	25
Total (313 Institutions)	\$1,062M	

**

Exclusions from Total:

Federally Funded Research and Development Centers

Jet Propulsion Laboratory (Operated by Calif. Inst. of Tech.)	\$1,995M
Space Radiation Effects Laboratory (Operated by College of William & Mary)	\$ 5M

Employee Training & Misc. Purchases	(Less Than 1% of Total)
-------------------------------------	----------------------------

GEOGRAPHICAL DISTRIBUTION OF NASA OBLIGATIONS
TO EDUCATIONAL INSTITUTIONS BY STANDARD U.S. REGION

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

REGION	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
NEW ENGLAND	264,572,383	20,204,714	284,777,097
MIDDLE ATLANTIC	85,187,440	37,073,446	122,260,886
EAST NORTH CENTRAL	103,320,126	33,617,922	136,938,048
WEST NORTH CENTRAL	40,005,489	21,084,219	61,089,708
SOUTH ATLANTIC	54,678,148	34,452,093	89,130,241
EAST SOUTH CENTRAL	16,219,785	10,647,430	26,867,215
WEST SOUTH CENTRAL	64,484,066	21,795,378	86,279,444
MOUNTAIN	45,624,560	14,262,805	59,887,365
PACIFIC	151,781,933	30,458,227	182,240,160
US POSSESSIONS	296,160		296,160
GRAND TOTALS	826,170,090	223,596,234	1,049,766,324

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS
BY COGNIZANT PROGRAM OFFICE AND DIVISION

CUMULATIVE 1959 THROUGH JUNE 30, 1970
IN MILLIONS OF DOLLARS

COGNIZANT PROGRAM OFFICE AND DIVISION	OBLIGATED FROM HQRS	OBLIGATED FROM FIELD	DIVISION TOTALS
MISC			
VARIOUS OFFICES - MISC	3.2	1.3	4.5
TOTAL MISC	3.2	1.3	4.5
OTU			
TECHNOLOGY UTILIZATN - OTU	14.2	.7	14.9
TOTAL OTU	14.2	.7	14.9
OUA			
UNIVERSITY AFFAIRS - OUA	223.2	.4	223.6
TOTAL OUA	223.2	.4	223.6
OTEDA			
TRACKING & DATA ACQ - OTEDA	.6	10.0	10.6
TOTAL OTEDA	.6	10.0	10.6
DART			
FLIGHT PROGRAMS - RF	.0	.1	.1
MISSION ANALYSIS DIV - ARC	.2	.3	.5
SPACE PWR ELECT PROP - RN	2.5	4.8	7.3
AEC NASA NUCLR PROP - NPD	2.4	.9	3.3
CHEMICAL PROPULSION - RP	6.9	6.0	12.9

CUMULATIVE 1959 THROUGH JUNE 30, 1970

IN MILLIONS OF DOLLARS

COGNIZANT PROGRAM OFFICE AND DIVISION	OBLIGATED FROM HQRS	OBLIGATED FROM FIELD	DIVISION TOTALS
OART (CONTINUED)			
SPACE VEHICLES - RV	4.0	10.0	14.0
ELFCTRONICS & CONTRL - RE	9.2	32.9	42.1
AERONAUTICS - RA	.9	12.3	13.2
BIOTFCH & HUMAN PSCH - RB	6.1	14.9	21.0
RESEARCH - RR	35.3	8.0	43.3
PROGRAMS & RESOURCES - RM	.0	.2	.2
TOTAL OART	67.5	90.4	157.9
OSS&A			
SPACE SCIENCE & APPL - OSS&A	.0	.1	.1
APOLLO LUNAR PROGRAM - MAL	3.8	.3	4.1
COMMUNICATIONS PROG - SC	.8	7.2	8.0
LAUNCH VEHICLES - SV	.8	3.4	4.2
PLANETARY PROGRAMS - SL	51.4	12.8	64.2
PHYSICS & ASTRONOMY - SG	111.6	116.1	227.7
MANNED FLT EXPRMNTS - SS	7.5	2.9	10.4
BIOSCIENCE PROGRAMS - SB	47.6	16.8	64.4
EARTH OBSERVATIONS - SR	1.7	20.9	22.6
TOTAL OSS&A	225.2	180.5	405.7
OMSF			
APOLLO PROGRAM - MA	.5	175.4	175.9
MISSION OPERATIONS - MO	.0	.8	.8
APOLLO APPLICATIONS - ML	1.4	24.3	25.7
SPACE STATION - MF	.8	2.2	3.0
ADV MANNED MISSIONS - MT	4.4	18.9	23.3
GEMINI, MERCURY - MR	.2	3.5	3.7
TOTAL OMSF	7.3	225.1	232.4
GRAND TOTALS	541	509	1,050

GEOGRAPHICAL DISTRIBUTION OF NASA OBLIGATIONS
TO EDUCATIONAL INSTITUTIONS BY STANDARD U.S. REGION AND STATE

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

REGION AND STATE	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
NEW ENGLAND			
CONNECTICUT	7,318,056	2,165,875	9,483,931
MAINE	161,000	732,050	893,050
MASSACHUSETTS	247,857,421	13,890,989	261,748,410
NEW HAMPSHIRE	7,798,316	764,500	8,562,816
RHODE ISLAND	1,321,824	1,541,000	2,862,824
VERMONT	115,766	1,110,300	1,226,066
SUB-TOTALS	264,572,383	20,204,714	284,777,097
MIDDLE ATLANTIC			
NEW JERSEY	31,669,403	2,643,198	34,312,601
NEW YORK	34,905,909	21,565,320	56,471,229
PENNSYLVANIA	18,612,128	12,864,928	31,477,056
SUB-TOTALS	85,187,440	37,073,446	122,260,886
EAST NORTH CENTRAL			
ILLINOIS	34,110,705	8,476,139	42,586,844
INDIANA	7,608,988	5,771,143	13,380,131
MICHIGAN	37,126,018	4,217,219	41,343,237
OHIO	11,784,023	7,770,844	19,554,867
WISCONSIN	12,690,392	7,382,577	20,072,969
SUB-TOTALS	103,320,126	33,617,922	136,938,048
WEST NORTH CENTRAL			
IOWA	14,863,942	2,860,380	17,724,322

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

REGION AND STATE	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
WEST NORTH CENTRAL (CONTINUED)			
KANSAS	2,471,102	4,963,400	7,434,502
MINNESOTA	18,399,594	6,163,539	24,563,133
MISSOURI	4,089,288	6,158,400	10,247,688
NEBRASKA	20,000	382,800	402,800
NORTH DAKOTA	68,405	265,100	333,505
SOUTH DAKOTA	93,158	290,600	383,758
SUB-TOTALS	40,005,489	21,084,219	61,089,708
SOUTH ATLANTIC			
DELAWARE	196,276	592,911	789,187
DISTRICT OF COLUMBIA	7,214,256	4,273,957	11,488,213
FLORIDA	7,780,528	6,643,587	14,424,115
GEORGIA	6,694,456	5,260,848	11,955,304
MARYLAND	18,580,167	6,640,111	25,220,278
NORTH CAROLINA	3,839,979	3,893,170	7,733,149
SOUTH CAROLINA	425,464	871,300	1,296,764
VIRGINIA	9,537,248	4,848,709	14,385,957
WEST VIRGINIA	409,774	1,427,500	1,837,274
SUB-TOTALS	54,678,148	34,452,093	89,130,241
EAST SOUTH CENTRAL			
ALABAMA	9,636,061	5,796,188	15,432,249
KENTUCKY	2,286,945	1,106,342	3,393,287
MISSISSIPPI	1,378,306	896,700	2,275,006
TENNESSEE	2,918,473	2,848,200	5,766,673
SUB-TOTALS	16,219,785	10,647,430	26,867,215
WEST SOUTH CENTRAL			
ARKANSAS	688,370	742,600	1,430,970
LOUISIANA	2,763,552	2,047,624	4,811,176

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

REGION AND STATE	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
WEST SOUTH CENTRAL	(CONTINUED)		
OKLAHOMA	3,770,270	2,422,100	6,192,370
TEXAS	57,261,874	16,583,054	73,844,928
SUB-TOTALS	64,484,066	21,795,378	86,279,444
MOUNTAIN			
ARIZONA	10,198,439	3,204,677	13,403,116
COLORADO	12,114,984	5,756,628	17,871,612
IDAHO	24,328	177,900	202,228
MONTANA	65,456	1,180,300	1,245,756
NEVADA	907,281	244,600	1,151,881
NEW MEXICO	20,067,491	2,146,000	22,213,491
UTAH	1,628,878	1,371,000	2,999,878
WYOMING	617,703	181,700	799,403
SUB-TOTALS	45,624,560	14,262,805	59,887,365
PACIFIC			
ALASKA	7,752,874	199,600	7,952,474
CALIFORNIA	129,498,424	26,170,227	155,668,651
HAWAII	9,150,699	229,800	9,380,499
OREGON	1,593,408	778,500	2,371,908
WASHINGTON	3,786,528	3,080,100	6,866,628
SUB-TOTALS	151,781,933	30,458,227	182,240,160
US POSSESSIONS			
PUERTO RICO	59,500		59,500
VIRGIN ISLANDS	236,660		236,660
SUB-TOTALS	296,160		296,160

ES23501

TABLE III

PAGE 4

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

REGION AND STATE	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
GRAND TOTALS	826,170,090	223,596,234	1,049,766,324

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS
BY TYPE OF SUPPORT, LOCATION AND INSTITUTION

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
ALABAMA			

ALABAMA A&M COLLEGE - 08	82,831	42,506	125,337
AUBURN UNIVERSITY - 03	5,084,147	1,601,741	6,685,888
OAKWOOD COLLEGE - 08		24,829	24,829
TALLADEGA COLLEGE - 04		18,658	18,658
TUSKEGEE INSTITUTE - 03		48,251	48,251
UNIV ALA-BIRMINGHAM - 06	15,000		15,000
UNIV ALA-HUNTSVILLE - 08	787,693	250,000	1,037,693
UNIV ALA-TUSCALOOSA - 05	3,666,390	3,810,203	7,476,593
ALASKA			

UNIV OF ALASKA - 01	7,752,874	199,600	7,952,474
ARIZONA			

APIZONA STATE UNIV - 01	329,706	530,400	860,106
UNIV OF ARIZONA - 02	9,868,733	2,674,277	12,543,010
ARKANSAS			

ARKANSAS STATE UNIV - 01	35,000		35,000
HARDING COLLEGE - 02	182,214		182,214
U ARKANSAS-MEDL CNTR - 02	57,495		57,495
UNIV ARKANSAS-FAYETV - 03	343,023	742,600	1,085,623
UNIV ARKANSAS-LTL RK - 02	70,638		70,638
CALIFORNIA			

CAL STATE COL-LG BCH - 32	23,183		23,183

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	INSTITUTION TOTALS
CALIFORNIA (CONTINUED)			
CALTE INST OF TECH - 20	15,170,000	2,670,947	17,840,947
CHICO STATE COLLEGE - 02	20,351		20,351
HUMBOLDT STATE COL - 01	15,965		15,965
S FRANCISC STATE COL - 06	26,823		26,823
SAN DIEGO STATE COL - 36	24,418		24,418
SAN JOSE STATE COL - 09	274,164		274,164
STANFORD UNIVERSITY - 09	28,126,576	6,094,774	34,221,350
UNIV CALIF-BERKELEY - 07	46,256,029	6,213,575	52,469,604
UNIV CALIF-DAVIS - 04	2,173,750		2,173,750
UNIV CALIF-L ANGELES - 28	14,007,705	7,121,591	21,129,296
UNIV CALIF-RIVERSIDE - 38	141,350	228,100	369,450
UNIV CALIF-S BARRAPA - 13	812,349	218,966	1,031,315
UNIV CALIF-S CRUZ - 12	410,536		410,536
UNIV CALIF-SAN DIEGO - 35	15,310,145	626,700	15,936,845
UNIV CALIF-SAN FRAN - 05	432,056		432,056
UNIV OF REDLANDS - 33	155,028		155,028
UNIV OF SANTA CLARA - 09	235,618		235,618
UNIV OF SOUTHERN CAL - 21	5,667,937	2,995,574	8,663,511
UNIV SAN FRANCISCO - 06	214,441		214,441
COLORADO			
COLORADO SCH OF MINE - 02	137,357	515,000	652,357
COLORADO STATE UNIV - 04	2,927,140	845,755	3,772,895
U COLORADO-DENV MEDL - 01	10,000		10,000
UNIV OF COLORADO - 02	6,766,799	1,741,400	8,508,199
UNIV OF DENVER - 01	2,177,857	2,654,473	4,832,330
WESTERN STATE COL - 04	95,831		95,831
CONNECTICUT			
FAIRFIELD UNIVERSITY - 04	53,293		53,293
RENSSLEAFLR POLY-CONN - 01	101,600		101,600
ST JOSEPHS COL-CONN - 01	5,500		5,500
UNIV OF BRIDGEPORT - 04	5,185		5,185
UNIV OF CONNECTICUT - 02	1,505,843	629,600	2,135,443
WESLEYAN UNIVERSITY - 02	343,178	28,558	371,736

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
---	---------------------	-----------------------------------	--------

CONNECTICUT (CONTINUED)

YALE UNIVERSITY - 03	5,303,457	1,507,717	6,811,174
----------------------	-----------	-----------	-----------

DELAWARE

DELAWARE STATE COL - 01	550	8,511	9,061
UNIV OF DELAWARE - 01	195,726	584,400	780,126

DISTRICT OF COLUMBIA

AMERICAN UNIVERSITY - 01	311,445		311,445
CATHOLIC UNIVERSITY - 01	1,571,094	1,091,623	2,662,717
FEDERAL CITY COLLEGE - 01		27,934	27,934
GEORGE WASHINGTON U - 01	4,192,646	2,173,900	6,366,546
GEorgetown UNIV - 01	653,214	460,200	1,113,414
HOWARD UNIVERSITY - 01	485,857	520,300	1,006,157

FLORIDA

FLA INST CONT U STUD - 05	89,210		89,210
FLORIDA INST OF TECH - 05	151,504		151,504
FLORIDA SOUTHERN COL - 06	26,785		26,785
FLORIDA STATE UNIV - 02	2,424,454	681,700	3,106,154
FLORIDA TECH UNIV - 05	37,470		37,470
UNIV OF FLORIDA - 02	2,552,822	3,875,300	6,428,122
UNIV OF MIAMI - 12	2,285,328	2,086,587	4,371,915
UNIV OF SO FLORIDA - 06	212,955		212,955

GEORGIA

EMORY UNIVERSITY - 04	1,575,722	211,400	1,787,122
GEORGIA INST OF TECH - 05	4,277,478	4,396,648	8,674,126
UNIV OF GEORGIA - 10	841,256	652,800	1,494,056

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
HAWAII			
UNIV OF HAWAII - 01	9,150,699	229,800	9,380,499
IDAHO			
UNIV OF IDAHO - 01	24,328	177,900	202,228
ILLINOIS			
BRADLEY UNIVERSITY - 18	23,056		23,056
ILL INST OF TECH - 01	1,416,544	990,400	2,406,944
NORTHWESTERN UNIV - 13	4,569,850	1,627,800	6,197,650
SOUTHERN ILLINOIS U - 21	265,039	93,000	358,039
UNIV ILLINOIS-CHICGO - 07	421,847		421,847
UNIV ILLINOIS-URBANA - 22	7,143,938	2,392,300	9,536,238
UNIV OF CHICAGO - 02	20,270,431	3,372,639	23,643,070
INDIANA			
BALL STATE UNIVERSTY - 10	20,450		20,450
INDIANA UNIVERSITY - 07	2,993,542	973,223	3,966,765
PURDUE UNIVERSITY - 02	3,631,478	4,003,620	7,635,098
ROSE POLYTECHNIC - 07	47,292		47,292
UNIV OF NOTRE DAME - 03	916,226	794,300	1,710,526
IOWA			
IOWA STATE UNIV - 05	1,278,785	1,080,900	2,359,685
UNIV OF IOWA - 01	13,585,157	1,779,480	15,364,637
KANSAS			
KANSAS STATE UNIV - 02	400,432	1,060,700	1,461,132
UNIV OF KANSAS - 03	1,898,593	3,902,700	5,801,293
WICHITA STATE UNIV - 04	172,077		172,077

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
KENTUCKY			

UNIV OF KENTUCKY - 06	2,068,705	537,600	2,606,305
UNIV OF LOUISVILLE - 03	218,240	568,742	786,982
LOUISIANA			

CENTENARY COLLEGE - 04	36,500		36,500
GRAMBLING COLLEGE - 05	26,980		26,980
LA STATE U-BAT ROUGE - 06	1,668,296	1,222,824	2,891,120
LA STATE U-NEW ORLNS - 01	24,746		24,746
LA STATE U-SHREVESPT - 04	14,260		14,260
LOUISIANA POLY INST - 05	28,087		28,087
NE LOUISIANA UNIV - 05	147,675		147,675
SOUTHERN UNIVERSITY - 06	10,558		10,558
TULANE UNIVERSITY - 02	806,450	824,800	1,631,250
MAINE			

AROOSTOOK STATE COL - 02	26,000		26,000
FARMINGTON STATE COL - 02	40,000		40,000
GORHAM STATE COLLEGE - 01	40,000		40,000
UNIV OF MAINE-ORONO - 02	30,000	732,050	762,050
WASHINGTON STATE COL - 02	25,000		25,000
MARYLAND			

BOWIE STATE COLLEGE - 05	20,590	12,334	32,924
COLUMBIA UNION COL - 08	19,024		19,024
JOHNS HOPKINS UNIV - 04	3,866,279	918,800	4,785,079
MORGAN STATE COLLEGE - 04		36,972	36,972
UNIV MARYLAND-BALT - 03	1,096,236		1,096,236
UNIV OF MARYLAND - 05	13,471,038	5,642,005	19,113,043
WOODSTOCK COLLEGE - 06	107,000	30,000	137,000

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
MASSACHUSETTS			
BOSTON COLLEGE - 03	28,000	224,400	252,400
BOSTON UNIVERSITY - 08	230,101	389,400	619,501
BRANDEIS UNIVERSITY - 03	573,428	399,900	973,328
CLARK UNIVERSITY - 04	14,881	166,100	180,981
COL OF HOLY CROSS - 04	143,072		143,072
FORSYTH DENTAL CNTR - 09	70,113		70,113
HARVARD UNIVERSITY - 08	38,386,892	276,000	38,662,892
LOWELL TECH INST - 05	1,062,362	61,200	1,123,562
MASS INST OF TECH - 08	204,355,524	11,203,008	215,558,532
NORTHEASTERN UNIV - 09	925,865	446,481	1,372,346
SUFFOLK UNIVERSITY - 08	19,762		19,762
TUFTS UNIVERSITY - 07	126,080	231,700	357,780
UNIV OF MASSACHUSETT - 01	991,015	293,100	1,284,115
WOODSHOLE OCEAN INST - 12	697,557		697,557
WORCESTER POLY INST - 04	232,769	199,700	432,469
MICHIGAN			
MICHIGAN STATE UNIV - 06	443,653	931,692	1,375,345
MICHIGAN TECH UNIV	31,158	94,500	125,658
OAKLAND UNIVERSITY - 18	50,000		50,000
UNIV OF DETROIT - 01	146,760		146,760
UNIV OF MICHIGAN - 02	35,096,766	2,872,527	37,969,293
WAYNE STATE UNIV - 13	1,331,292	318,500	1,649,792
WESTERN MICHIGAN U - 03	26,389		26,389
MINNESOTA			
CONCORDIA COL-MOORHD - 07	11,419		11,419
UNIV OF MINNESOTA - 05	18,388,175	6,163,539	24,551,714
MISSISSIPPI			
MISSISSIPPI STATE U - 01	1,292,148	533,300	1,825,448
UNIV MISS-MEDL CNTR - 03	86,158		86,158
UNIV OF MISSISSIPPI - 02		262,800	262,800

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
MISSISSIPPI	(CONTINUED)		

UNIV SO MISSISSIPPI - 05		100,600	100,600
MISSOURI			

ST LOUIS UNIVERSITY - 03	356,832	757,800	1,114,632
UNIV MO-COLUMBIA - 08	932,249	1,516,400	2,448,649
UNIV MO-KANSAS CITY - 05	546,062		546,062
UNIV MO-ROLLA - 08	153,659	473,700	627,359
UNIV MO-ST LOUIS - 03	9,917		9,917
WASHINGTON UNIVERSTY - 02	2,090,569	3,410,500	5,501,069
MONTANA			

MONTANA STATE UNIV - 01	65,456	924,700	990,156
UNIV OF MONTANA - 01		255,600	255,600
NEBRASKA			

UNIV NEBRASKA-LINCLN - 01	20,000	382,800	402,800
NEVADA			

UNIV OF NEVADA-RENO - 01	907,281	244,600	1,151,881
NEW HAMPSHIRE			

DARTMOUTH COLLEGE - 02	1,897,937	411,500	2,309,437
UNIV NEW HAMPSHIRE - 01	5,900,379	353,000	6,253,379
NEW JERSEY			

FAIRLEIGH-DICKNSON U - 09	12,000		12,000
NEW JERSEY COL MED - 10	170,216		170,216

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
NEW JERSEY	(CONTINUED)		
NEWARK COLLEGE ENGRG - 10	216,187		216,187
PRINCETON UNIVERSITY - 04	28,136,200	1,425,944	29,562,144
RUTGERS-STATE UNIV - 15	2,051,470	650,754	2,702,224
SETON HALL UNIV - 11	193,788		193,788
STEVENS INST OF TECH - 14	889,542	566,500	1,456,042
NEW MEXICO			
NEW MEX INST MINING - 02	43,098		43,098
NEW MEXICO STATE U - 01	16,351,418	1,067,900	17,419,318
UNIV OF NEW MEXICO - 01	3,672,975	1,078,100	4,751,075
NEW YORK			
ADELPHI UNIVERSITY - 04	16,270	778,070	794,340
ALBANY MED COLLEGE - 29	236,446		236,446
ALFRED UNIVERSITY - 38	17,634	97,200	114,834
CITY COLLEGE OF N Y - 19	549,952	197,704	747,656
CITY U N Y-GRAD CNTR - 19		391,000	391,000
CLARKSON COL OF TECH - 31	148,629	269,100	417,729
COLUMBIA UNIVERSITY - 20	5,687,826	3,204,406	8,892,232
CORNELL UNIVERSITY - 33	4,861,966	3,142,352	8,004,318
DOWLING COLLEGE - 01	3,800		3,800
DUDLEY OBSERVATORY - 29	1,936,367		1,936,367
FORDHAM UNIVERSITY - 21	307,592	230,100	537,692
HAMILTON COLLEGE - 32	5,000		5,000
LONG ISLAND UNIV - 03	198,399		198,399
NEW YORK MEDICAL COL - 18	7,090		7,090
NEW YORK UNIVERSITY - 19	4,399,071	2,977,371	7,376,442
POLY INST BROOKLYN - 14	1,114,063	1,866,200	2,980,263
RENSSELAER POLY INST - 30	7,287,144	3,189,800	10,476,944
ST JOHNS UNIVERSITY - 06	46,995		46,995
ST U NY-DNST MED CTR - 12	4,350		4,350
STATE U NY-A&T-ALFRD - 38	32,500		32,500
STATE U NY-STONY BRK - 01	1,610,395	438,168	2,048,563
STATE UNIV NY-ALBANY - 29	103,626	30,000	133,626
STATE UNIV NY-BUFFAL - 39	909,833	177,000	1,086,833

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	INSTITUTION TOTALS
NEW YORK (CONTINUED)			
SYRACUSE UNIVERSITY - 34	1,283,647	1,968,900	3,252,547
UNION COLLEGE - 29	20,000		20,000
UNIV OF ROCHESTER - 36	3,651,840	1,935,200	5,587,040
YESHIVA UNIVERSITY - 23	465,474	672,749	1,138,223
NORTH CAROLINA			
A&T STATE U OF N CAR - 06		39,170	39,170
DUKE UNIVERSITY - 04	802,288	1,393,400	2,195,688
NO CAROLINA STATE U - 04	2,511,540	1,057,000	3,568,540
UNIV N CAR-CHPL HILL - 04	526,151	1,403,600	1,929,751
NORTH DAKOTA			
NO DAKOTA STATE UNIV - 01	9,000	179,600	188,600
UNIV OF NORTH DAKOTA - 01	59,405	85,500	144,905
OHIO			
BOWLING GRN STATE U - 05	300,572		300,572
CASE WESTERN RESERVE - 22	5,284,079	4,622,394	9,906,473
CLEVELAND STATE UNIV - 20	70,000		70,000
COLLEGE OF WOOSTER - 17	3,613		3,613
HIRAM COLLEG - 11	119,466		119,466
JOHN CARROLL UNIV - 22	115,806		115,806
KENT STATE UNIV - 11	221,768	287,900	509,668
MIAMI UNIVERSITY - 24		41,599	41,599
OHIO STATE UNIV - 15	4,327,510	1,050,151	5,377,661
OHIO UNIVERSITY - 10	152,254	192,600	344,854
UNIV OF AKRON - 14	4,000		4,000
UNIV OF CINCINNATI - 02	1,151,845	1,323,800	2,475,645
UNIV OF TOLEDO - 09	20,254	252,400	272,654
XAVIER UNIV-OHIO - 01	12,856		12,856

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
OKLAHOMA			

OKLAHOMA CITY UNIV - 05	411,450		411,450
OKLAHOMA STATE UNIV - 05	2,492,410	1,160,500	3,652,910
SOUTHEASTN STATE COL - 03	631,124		631,124
UNIV OF OKLAHOMA - 04	180,626	1,261,600	1,442,226
UNIV OKLA-MEDL CNTR - 05	54,660		54,660
OREGON			

LINFIELD COLLEGE - 01	50,783		50,783
OREGON STATE UNIV - 01	529,691	778,500	1,308,191
UNIV OF OREGON - 04	880,686		880,686
UNIV OREGON-MEDL SCH - 01	132,248		132,248
PENNSYLVANIA			

BRYN MAWR COLLEGE - 13	32,492		32,492
CARNEGIE MELLON UNIV - 14	1,147,401	1,185,800	2,333,201
DREXEL UNIVERSITY - 01	617,429	924,200	1,541,629
DUQUESNE UNIVERSITY - 14		100,700	100,700
HAHNEMANN MED COL - 03	19,211		19,211
HAVERFORD COLLEGE - 07	234,518		234,518
LEHIGH UNIVERSITY - 15	968,758	792,400	1,761,158
PENNSYLVANIA STATE U - 23	5,802,772	2,727,271	8,530,043
TEMPLE UNIVERSITY - 02	1,360,586	185,800	1,546,386
UNIV OF PENNSYLVANIA - 01	3,660,567	2,003,200	5,663,767
UNIV OF PITTSBURGH - 14	4,664,067	4,907,357	9,571,424
VILLANOVA UNIVERSITY - 07	104,327	38,200	142,527
RHODE ISLAND			

BROWN UNIVERSITY - 01	1,311,824	1,191,600	2,503,424
PROVIDENCE COLLEGE - 02	10,000		10,000
UNIV OF RHODE ISLAND - 02		349,400	349,400

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
SOUTH CAROLINA			
CLEMSON UNIVERSITY - 03	307,466	469,800	777,266
UNIV OF SO CAROLINA - 02	117,998	401,500	519,498
SOUTH DAKOTA			
SD DAKOTA SCHL MINES - 02	54,630	100,000	154,630
SD DAKOTA STATE UNIV - 01	38,528		38,528
UNIV OF SOUTH DAKOTA - 01		190,600	190,600
TENNESSEE			
FAST TENN STATE UNIV - 01	20,350		20,350
MEMPHIS STATE UNIV - 09	4,962		4,962
TENNESSEE TECH U - 04	155,446		155,446
UNIV OF TENNESSEE - 02	2,107,993	1,990,400	4,098,393
VANDERBILT UNIVERSTY - 05	629,722	857,800	1,487,522
TEXAS			
BAYLOR UNIV MED COL - 22	1,951,924		1,951,924
BAYLOR UNIVERSITY - 11	415,499	53,000	468,499
BISHOP COLLEGE - 05	18,830	21,159	39,989
HOUSTON BAPTIST COL - 07	40,100		40,100
LAMAR STATE COL TECH - 09	32,058		32,058
NO TEXAS STATE UNIV - 13	41,262		41,262
PAN AMERICAN COLLEGE - 15	61,000		61,000
PRAIRIE VIEW A&M COL - 06		63,908	63,908
RICE UNIVERSITY - 22	17,392,944	4,636,700	22,029,644
SOUTHERN METHODIST U - 05	1,011,494	870,000	1,881,494
TEXAS A&I UNIVERSITY - 15	11,463		11,463
TEXAS A&M UNIVERSITY - 06	2,364,488	3,229,600	5,594,088
TEXAS CHRISTIAN UNIV - 06	538,739	277,800	816,539
TEXAS SOUTHERN UNIV - 22	78,433	16,000	94,433
TEXAS TECH COLLEGE - 19	290,608	538,700	829,308
TEXAS WOMANS UNIV - 13	893,797		893,797
UNIV OF HOUSTON - 22	3,491,307	2,392,377	5,883,684

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
---	---------------------	-----------------------------------	--------

TEXAS (CONTINUED)

UNIV OF ST THOMAS - 07	259,589		259,589
UNIV TEX-ANDRSN HOSP - 22	450,000		450,000
UNIV TFX-BIOMED GRAD - 22	398,070		398,070
UNIV TEX-DENTAL BRCH - 22	115,000		115,000
UNIV TEX-SW MED SCHL - 03	1,153,553		1,153,553
UNIV TEXAS-ARLINGTON - 22	15,052		15,052
UNIV TEXAS-AUSTIN - 10	9,940,113	934,700	10,874,813
UNIV TEXAS-DALLAS - 05	15,435,120	3,549,110	18,984,230
UNIV TEXAS-EL PASO - 16	607,559		607,559
UNIV TEXAS-GALVESTON - 09	253,872		253,872

UTAH

BRIGHAM YOUNG UNIV - 01	153,116	210,400	363,516
UNIV OF UTAH - 02	1,273,941	727,000	2,000,941
UTAH STATE UNIV - 01	201,821	433,600	635,421

VERMONT

UNIV OF VERMONT - 01	115,766	1,110,300	1,226,066
----------------------	---------	-----------	-----------

VIRGINIA

COLLEGE OF WM & MARY - 01	1,848,597	1,128,275	2,976,872
HAMPTON INSTITUTE - 01	257,809	11,125	268,934
HOLLINS COLLEGE - 06	43,859		43,859
OLD DOMINION UNIV - 02	855,477	663,209	1,518,686
UNIV OF RICHMOND - 03	10,280		10,280
UNIV OF VIRGINIA - 01	4,233,728	1,573,100	5,806,828
VIRGINIA COMMNLTH U - 03	1,136,861		1,136,861
VIRGINIA POLY INST - 06	1,150,637	1,473,000	2,623,637

WASHINGTON

UNIV OF WASHINGTON - 01	3,578,834	2,652,500	6,231,334
-------------------------	-----------	-----------	-----------

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION, AND CONG DISTRICT	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
WASHINGTON	(CONTINUED)		

WASHINGTON STATE U - 04	207,694	427,600	635,294
WEST VIRGINIA			

WEST VIRGINIA UNIV - 02	409,774	1,427,500	1,837,274
WISCONSIN			

MARQUETTE UNIVERSITY - 05	69,098	53,100	122,198
UNIV WISC-MADISON - 02	12,621,294	7,329,477	19,950,771
WYOMING			

UNIV OF WYOMING - 01	617,703	181,700	799,403
PUERTO RICO			

UNIV OF PUERTO RICO	59,500		59,500
VIRGIN ISLANDS			

COLLEGE VIRGIN ISLND	236,660		236,660
TOTAL UNITED STATES	826,170,090	223,596,234	1,049,766,324
AUSTRALIA			

UNIV NEWCASTLE-AUST	4,700		4,700
UNIV OF ADELAIDE	19,970		19,970
UNIV OF QUEENSLAND	4,650		4,650

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
AUSTRIA			

UNIV OF INNSBRUCK	10,500		10,500
CANADA			

LAURENTIAN UNIVERSITY	26,965		26,965
LAVAL UNIVERSITY	10,000		10,000
MCGILL UNIVERSITY	50,012		50,012
MCMASTER UNIVERSITY	116,173		116,173
UNIV OF OTTAWA	20,333		20,333
UNIV OF TORONTO	415,052		415,052
UNIV WESTERN ONTARIO	149,950		149,950
YORK UNIVERSITY	122,580		122,580
CHILE			

UNIV OF CHILE	8,423,621		8,423,621
GREAT BRITAIN			

NORTH WALES UNIV COL	13,750		13,750
UNIV OF MANCHESTER	374,582		374,582
UNIV OF NOTTINGHAM	40,000		40,000
UNIV OF SOUTHAMPTON	171,622		171,622
ICELAND			

UNIV OF ICELAND	7,000		7,000
IRELAND			

QUEENS UNIVERSITY	22,000		22,000

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

LOCATION, INSTITUTION	PROJECT RESEARCH	SUSTAINING INSTITUTION PROGRAM	TOTALS
ISRAEL			

ISRAEL INST OF TECH	21,410		21,410
JAMAICA			

UNIV OF WEST INDIES	31,617		31,617
NEW ZEALAND			

UNIV OF AUCKLAND	103,610		103,610
UNIV OF CANTERBURY	4,527		4,527
PERU			

UNIV OF PERU	3,019,512		3,019,512
SWEDEN			

UNIV OF GOTEborg	8,000		8,000
TOTAL FOREIGN	13,192,136		13,192,136
GRAND TOTAL	839,362,226	223,596,234	1,062,958,460

NASA - OBLIGATIONS AND DISBURSEMENTS TO EDUCATIONAL INSTITUTIONS
BY INSTITUTION AND UNIQUE PROJECT

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	A&T STATE U OF N CAR			
183	RESEARCH GRANTS	39,170	39,170	0
	INSTITUTION TOTALS			
	ADELPHI UNIVERSITY			
181	TRAINING GRANTS	261,700		
183	RESEARCH GRANTS	516,370		
188	PHYSICS AND ASTRONOMY SRT	16,270		
	INSTITUTION TOTALS	794,340	701,969	
	ALABAMA A&M COLLEGE			
127	HUMAN FACTOR SYSTEMS SRT	53,738		
183	RESEARCH GRANTS	42,506		
188	PHYSICS AND ASTRONOMY SRT	29,093		
	INSTITUTION TOTALS	125,337	115,887	
	ALBANY MED COLLEGE			
914	APOLLO SPACECRAFT	236,446		
	INSTITUTION TOTALS	236,446	45,188	
	ALFRED UNIVERSITY			
123	CHEMICAL AND SOLAR POWER	17,634		
SRT				
181	TRAINING GRANTS	97,200		
	INSTITUTION TOTALS	114,834	72,058	
	AMERICAN UNIVERSITY			
120	POWER & ELECTRIC	43,900		
	PROPULSION, SRT			

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

AMERICAN UNIVERSITY (CONTINUED)

123	CHEMICAL AND SOLAR POWER SRT	134,287		
124	SPACE VEHICLE SYSTEMS SRT	11,858		
129	RESEARCH PROGRAM SRT	60,000		
160	EARTH OBSERVATIONS SR&T	25,595		
189	BIOSCIENCE SRT	24,000		
624	NIMBUS	11,805		
	INSTITUTION TOTALS		311,445	271,699

ARIZONA STATE UNIV

124	SPACE VEHICLE SYSTEMS SRT	27,836		
125	ELECTRONICS SYSTEMS SRT	44,865		
129	RESEARCH PROGRAM SRT	24,826		
160	EARTH OBSERVATIONS SR&T	20,671		
166	APPLICATIONS TECHNOLOGY SRT	4,329		
181	TRAINING GRANTS	530,400		
185	PLANETARY EXPLORATION SRT SCIENCE	112,018		
188	PHYSICS AND ASTRONOMY SRT	27,898		
195	LUNAR SCIENCE SRT	36,600		
914	APOLLO SPACECRAFT	22,663		
933	SATURN V VEHICLE	8,000		
	INSTITUTION TOTALS		860,106	734,884

ARKANSAS STATE UNIV

125	ELECTRONICS SYSTEMS SRT	35,000		
	INSTITUTION TOTALS		35,000	24,993

AROOSTOOK STATE COL

000	MISCELLANEOUS RESEARCH	26,000		
	INSTITUTION TOTALS		26,000	26,000

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	AUBURN UNIVERSITY			
<hr/>				
103	LAUNCH VEHICLE TECHN	19,867		
124	SPACE VEHICLE SYSTEMS SRT	101,665		
125	ELECTRONICS SYSTEMS SRT	865,005		
129	RESEARCH PROGRAM SRT	122,833		
150	TRACKING & DATA ACQUISITION SRT	940,795		
160	EARTH OBSERVATIONS SR&T	22,000		
181	TRAINING GRANTS	1,601,741		
195	LUNAR SCIENCE SRT	15,978		
904	APOLLO SUPPORTING DEVELOPMENT	104,060		
931	SATURN I VEHICLE	524,678		
932	SATURN 1B VEHICLE	124,219		
933	SATURN V VEHICLE	2,209,529		
964	SATURN WORKSHOP	33,518		
	INSTITUTION TOTALS		6,685,888	5,964,978
	BALL STATE UNIVERSTY			
<hr/>				
000	MISCELLANEOUS RESEARCH	20,450		
	INSTITUTION TOTALS		20,450	16,303
	BAYLOR UNIV MED COL			
<hr/>				
127	HUMAN FACTOR SYSTEMS SRT	68,008		
189	BIOSCIENCE SRT	185,504		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	50,000		
903	GEMINI SUPPORTING DEVELOPMENT	105,449		
911	MERCURY	74,414		
914	APOLLO SPACECRAFT	658,065		
923	GEMINI SUPPORT	583,931		
945	MSF EXPERIMENT DEFINITION	94,095		
949	APOLLO APPLICATIONS EXPERIMENT DEF	90,458		
961	SPACECRAFT MODIFICATIONS	40,000		
975	SPACE STATION	2,000		
	INSTITUTION TOTALS		1,951,924	1,519,357

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

Baylor University

127	HUMAN FACTOR SYSTEMS SRT	85,861		
181	TRAINING GRANTS	53,000		
904	APOLLO SUPPORTING DEVELOPMENT	5,625		
914	APOLLO SPACECRAFT	314,013		
923	GEMINI SUPPORT	10,000		
	INSTITUTION TOTALS		468,499	457,417

BISHOP COLLEGE

183	RESEARCH GRANTS	21,159		
914	APOLLO SPACECRAFT	18,830		
	INSTITUTION TOTALS		39,989	26,083

BOSTON COLLEGE

181	TRAINING GRANTS	224,400		
189	BIOSCIENCE SRT	28,000		
	INSTITUTION TOTALS		252,400	244,314

BOSTON UNIVERSITY

127	HUMAN FACTOR SYSTEMS SRT	105,918		
143	ECONOMIC STUDIES	49,763		
181	TRAINING GRANTS	389,400		
185	PLANETARY EXPLORATION SPT SCIENCE	24,480		
189	BIOSCIENCE SRT	49,940		
	INSTITUTION TOTALS		619,501	467,014

BOWIE STATE COLLEGE

183	RESEARCH GRANTS	12,334		
195	LUNAR SCIENCE SRT	5,000		
311	NETWORK OPERATIONS-T&D ACQUISITION	10,590		
630	APPLICATIONS TECHNOLOGY SATELLITES	5,000		
	INSTITUTION TOTALS		32,924	0

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

BOWLING GRN STATE U

189	BIOSCIENCE SRT	44,997		
883	BIOSATELLITES	255,575		
	INSTITUTION TOTALS		300,572	281,767

BRADLEY UNIVERSITY

124	SPACE VEHICLE SYSTEMS SRT	14,945		
125	ELECTRONICS SYSTEMS SRT	8,111		
	INSTITUTION TOTALS		23,056	13,030

BRANDEIS UNIVERSITY

127	HUMAN FACTOR SYSTEMS SRT	125,475		
129	RESEARCH PROGRAM SRT	38,420		
160	EARTH OBSERVATIONS SR&T	2,995		
181	TRAINING GRANTS	399,900		
189	BIOSCIENCE SRT	380,658		
601	TIROS/TOS IMPROVEMENTS	25,880		
	INSTITUTION TOTALS		973,328	972,873

BRIGHAM YOUNG UNIV

124	SPACE VEHICLE SYSTEMS SRT	22,445		
181	TRAINING GRANTS	210,400		
196	PLANETARY ASTRONOMY	9,100		
384	DATA ANALYSIS-PLANETARY	32,530		
385	DATA ANALYSIS	53,000		
808	MARINER-MARS 1964	36,041		
	INSTITUTION TOTALS		363,516	324,338

BROWN UNIVERSITY

123	CHEMICAL AND SOLAR POWER SRT	184,516		
124	SPACE VEHICLE SYSTEMS SRT	127,402		
125	ELECTRONICS SYSTEMS SRT	460,569		
127	HUMAN FACTOR SYSTEMS SRT	5,000		
129	RESEARCH PROGRAM SRT	315,557		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

BROWN UNIVERSITY

(CONTINUED)

181	TRAINING GRANTS	741,600		
183	RESEARCH GRANTS	450,000		
194	ADV PLAN MISSIONS TECH APMT	24,477		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	81,788		
815	VIKING	27,138		
933	SATURN V VEHICLE	85,377		
	INSTITUTION TOTALS		2,503,424	2,159,114

BRYN MAWR COLLEGE

189	BIOSCIENCE SRT	32,492		
	INSTITUTION TOTALS		32,492	17,847

CAL STATE COL-LG BCH

120	POWER & ELECTRIC PROPULSION, SRT	23,183		
	INSTITUTION TOTALS		23,183	16,645

CALIF INST OF TECH

124	SPACE VEHICLE SYSTEMS SRT	486,588		
125	ELECTRONICS SYSTEMS SRT	130,479		
126	AERONAUTICAL VEHICLES ART	137,325		
127	HUMAN FACTOR SYSTEMS SRT	103,715		
128	CHEMICAL PROPULSION SRT	643,102		
129	RESEARCH PROGRAM SRT	829,790		
181	TRAINING GRANTS	1,390,947		
183	RESEARCH GRANTS	1,280,000		
185	PLANETARY EXPLORATION SPT SCIENCE	3,813,266		
188	PHYSICS AND ASTRONOMY SRT	4,326,129		
189	BIOSCIENCE SRT	367,609		
195	LUNAR SCIENCE SRT	382,954		
196	PLANETARY ASTRONOMY	409,302		
383	DATA ANALYSIS-LUNAR	84,955		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

CALIF INST OF TECH (CONTINUED)

384	DATA ANALYSIS-PLANETARY	24,347		
385	DATA ANALYSIS	40,000		
811	PIONEER INTERN QUIET SUN YR	7,000		
815	VIKING	48,296		
841	ORBITING GEOPHYSICAL OBSERVATORIES	655,800		
848	RETURNED LUNAR SAMPLE ANALYSIS	445,112		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	226,282		
861	INTERPLANETARY EXPLORERS /IMP/	505,000		
879	SOUNDING ROCKETS	295,485		
914	APOLLO SPACECRAFT	956,962		
931	SATURN I VEHICLE	50,847		
945	MSF EXPERIMFT DEFINITION	49,913		
975	SPACE STATION	149,742		
	INSTITUTION TOTALS		17,840,947	14,209,193

CARNEGIE MELLON UNIV

125	ELECTRONICS SYSTEMS SRT	171,073		
126	AERONAUTICAL VEHICLES ART	181,500		
129	RESEARCH PROGRAM SRT	377,697		
181	TRAINING GRANTS	1,185,800		
185	PLANETARY EXPLORATION SRT SCIENCE	96,983		
189	BIOSCIENCE SRT	131,368		
195	LUNAR SCIENCE SRT	22,800		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	5,048		
861	INTERPLANETARY EXPLORERS /IMP/	33,182		
914	APOLLO SPACECRAFT	115,400		
975	SPACE STATION	12,350		
	INSTITUTION TOTALS		2,333,201	1,826,534

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--	
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	DISBURSMNTS

CASE WESTERN RESERVE

120	POWER & ELECTRIC PROPULSION, SRT	120,000	
122	NUCLEAR ROCKETS PROPULSION SRT	189,582	
124	SPACE VEHICLE SYSTEMS SRT	507,136	
125	ELECTRONICS SYSTEMS SRT	891,027	
126	AERONAUTICAL VEHICLES ART	50,000	
127	HUMAN FACTOR SYSTEMS SRT	24,778	
128	CHEMICAL PROPULSION SRT	49,945	
129	RESEARCH PROGRAM SRT	2,464,880	
181	TRAINING GRANTS	2,396,394	
182	FACILITIES GRANTS	2,226,000	
185	PLANETARY EXPLORATION SRT SCIENCE	37,965	
188	PHYSICS AND ASTRONOMY SRT	148,000	
195	LUNAR SCIENCE SRT	44,600	
718	NERVA	177,065	
720	SUPERSONIC AIRCRAFT TECHNOLOGY	31,000	
866	MANNED SATELLITE SCIENCE	50,000	
914	APOLLO SPACECRAFT	265,000	
942	APOLLO APPLICATIONS DESIGN & DEV	173,101	
945	MSF EXPERIMENT DEFINITION INSTITUTION TOTALS	60,000	9,906,473 9,053,483

CATHOLIC UNIVERSITY

120	POWER & ELECTRIC PROPULSION, SRT	292,306
122	NUCLEAR ROCKETS PROPULSION SRT	286,999
123	CHEMICAL AND SOLAR POWER SRT	26,220
124	SPACE VEHICLE SYSTEMS SRT	239,279
125	ELECTRONICS SYSTEMS SRT	66,800
129	RESEARCH PROGRAM SRT	164,415
181	TRAINING GRANTS	1,091,623

CUMULATIVE 1959 THROUGH JUNE 30, 1970
WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	CATHOLIC UNIVERSITY	(CONTINUED)		
188	PHYSICS AND ASTRONOMY SRT	50,000		
189	BIOSCIENCE SRT	139,806		
385	DATA ANALYSIS	34,000		
879	SOUNDING ROCKETS	271,269		
	INSTITUTION TOTALS		2,662,717	2,407,135
	CENTENARY COLLEGE			
914	APOLLO SPACECRAFT	36,500		
	INSTITUTION TOTALS		36,500	28,322
	CHICO STATE COLLEGE			
126	AERONAUTICAL VEHICLES ART	13,825		
196	PLANETARY ASTRONOMY	6,526		
	INSTITUTION TOTALS		20,351	4,167
	CITY COLLEGE OF N Y			
120	POWER & ELECTRIC PROPULSION, SRT	22,444		
122	NUCLEAR ROCKETS PROPULSION SRT	49,124		
124	SPACE VEHICLE SYSTEMS SRT	7,989		
125	ELECTRONICS SYSTEMS SRT	66,992		
126	AERONAUTICAL VEHICLES ART	71,974		
129	RESEARCH PROGRAM SRT	133,610		
183	RESEARCH GRANTS	197,704		
188	PHYSICS AND ASTRONOMY SRT	75,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	122,819		
	INSTITUTION TOTALS		747,656	581,820
	CITY U N Y-GRAD CNTR			
181	TRAINING GRANTS	391,000		
	INSTITUTION TOTALS		391,000	356,421

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

CLARK UNIVERSITY

129	RESEARCH PROGRAM SRT	14,881		
181	TRAINING GRANTS	166,100		
	INSTITUTION TOTALS		180,981	175,434

CLARKSON COL OF TECH

124	SPACE VEHICLE SYSTEMS SRT	36,000		
125	ELECTRONICS SYSTEMS SRT	29,610		
129	RESEARCH PROGRAM SRT	83,019		
181	TRAINING GRANTS	269,100		
	INSTITUTION TOTALS		417,729	358,952

CLEMSON UNIVERSITY

125	ELECTRONICS SYSTEMS SRT	208,823		
126	AERONAUTICAL VEHICLES ART	24,560		
127	HUMAN FACTOR SYSTEMS SRT	30,000		
181	TRAINING GRANTS	469,800		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	44,083		
	INSTITUTION TOTALS		777,266	595,258

CLEVELAND STATE UNIV

120	POWER & ELECTRIC PROPULSION, SRT	70,000		
	INSTITUTION TOTALS		70,000	24,562

COL OF HOLY CROSS

188	PHYSICS AND ASTRONOMY SPT	143,072		
	INSTITUTION TOTALS		143,072	93,898

COLLEGE OF WM & MARY

123	CHEMICAL AND SOLAR POWER SRT	50,000		
124	SPACE VEHICLE SYSTEMS SRT	711,234		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

COLLEGE OF WM & MARY (CONTINUED)

125	ELECTRONICS SYSTEMS SRT	221,090		
126	AERONAUTICAL VEHICLES ART	26,596		
127	HUMAN FACTOR SYSTEMS SRT	53,766		
129	RESFAPCH PROGRAM SRT	682,000		
191	TRAINING GRANTS	210,075		
183	RESEARCH GRANTS	918,200		
188	PHYSICS AND ASTRONOMY SRT	36,925		
683	EARTH OBSERVATIONS ADVANCED STUDIES	25,316		
729	HYPersonic RESEARCH ENGINE	41,670		
	INSTITUTION TOTALS		2,976,872	2,688,875

COLLEGE OF WOOSTER

000	MISCELLANEOUS RESEARCH	3,613		
	INSTITUTION TOTALS		3,613	0

COLLEGE VIRGIN ISLND

185	PLANETARY EXPLORATION SRT SCIENCE	100,420		
195	LUNAR SCIENCE SRT	98,900		
914	APOLLO SPACECRAFT	37,340		
	INSTITUTION TOTALS		236,560	52,670

COLORADO SCH OF MINE

124	SPACE VEHICLE SYSTEMS SRT	30,357		
160	EARTH OBSRVRNS SR&T	107,000		
181	TRAINING GRANTS	190,000		
183	RESEARCH GRANTS	325,000		
	INSTITUTION TOTALS		652,357	304,760

COLORADO STATE UNIV

120	POWER & ELECTRIC PROPULSTON, SRT	453,315		
-----	-------------------------------------	---------	--	--

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS---		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

COLORADO STATE UNIV (CONTINUED)

124	SPACE VEHICLE SYSTEMS SRT	59,735		
125	ELECTRONICS SYSTEMS SPT	20,000		
126	AERONAUTICAL VEHICLES ART	42,680		
127	HUMAN FACTOR SYSTEMS SRT	45,000		
128	CHEMICAL PROPULSION SRT	37,870		
129	RESEARCH PROGRAM SRT	79,327		
160	EARTH OBSERVATIONS SR&T	930,940		
180	LAUNCH VEHICLE DEVELOPMENT SPT	15,642		
181	TRAINING GRANTS	526,000		
183	RESEARCH GRANTS	319,755		
189	BIOSCIENCE SRT	525,265		
601	TIROS/TOS IMPROVEMENTS	59,609		
604	NIMBUS	15,000		
883	BIOSATELLITES	355,774		
914	APOLLO SPACECRAFT	30,000		
933	SATURN V VEHICLE	256,983		
	INSTITUTION TOTALS		3,772,895	3,279,708

COLUMBIA UNION COL

160	EARTH OBSERVATIONS SR&T	19,024		
	INSTITUTION TOTALS		19,024	14,110

COLUMBIA UNIVERSITY

000	MISCELLANEOUS RESEARCH	62,305		
120	POWER & ELECTRIC PROPELLION, SRT	214,081		
124	SPACE VEHICLE SYSTEMS SRT	126,664		
127	HUMAN FACTOR SYSTEMS SRT	329,054		
129	RESEAPCH PROGRAM. SRT	713,908		
160	EARTH OBSERVATIONS SR&T	182,521		
181	TRAINING GRANTS	1,817,616		
183	RESEARCH GRANTS	1,386,790		
185	PLANETARY EXPLORATION SRT SCIENCE	520,000		
188	PHYSICS AND ASTRONOMY SRT	230,516		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

COLUMBIA UNIVERSITY (CONTINUED)

195	LUNAR SCIENCE SRT	40,000		
601	TIROS/TOS IMPROVEMENTS	31,961		
708	SMALL BIOTECHNOLOGY FLIGHTS	117,261		
821	ORBITING SOLAR OBSERVATORIES	50,838		
848	RETURNED LUNAR SAMPLE ANALYSIS	80,480		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	136,086		
870	SOUNDING ROCKETS	396,270		
914	APOLLO SPACECRAFT	2,083,770		
932	SATURN V VEHICLE	47,900		
942	APOLLO APPLICATIONS DESIGN & DEV	324,211		
	INSTITUTION TOTALS		8,892,232	6,780,809

CONCORDIA COL-MOORHD

189	BIOSCIENCE SRT	11,419		
	INSTITUTION TOTALS		11,419	7,487

CORNELL UNIVERSITY

000	MISCELLANEOUS RESEARCH	26,120		
122	NUCLEAR ROCKETS PROPULSION SRT	256,189		
125	ELECTRONICS SYSTEMS SRT	461,099		
126	AERONAUTICAL VEHICLES ART	206,340		
129	RESEARCH PROGRAM SRT	664,185		
181	TRAINING GRANTS	1,442,300		
182	FACILITIES GRANTS	1,350,000		
183	RESEARCH GRANTS	350,052		
185	PLANETARY EXPLORATION SRT SCIENCE	849,322		
186	PLANETARY EXPLORATION SRT AD TEC DV	211,381		
188	PHYSICS AND ASTRONOMY SRT	525,001		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

CORNELL UNIVERSITY (CONTINUED)

189	BIOSCIENCE SRT	223,880		
195	LUNAR SCIENCE SRT	86,000		
383	DATA ANALYSIS-LUNAR	15,000		
815	VIKING	24,677		
831	ORBITING ASTRONOMICAL OBSERVATORIES	8,411		
879	SOUNDING ROCKETS	930,779		
914	APOLLO SPACECRAFT	193,794		
923	GEMINI SUPPORT	31,739		
942	APOLLO APPLICATIONS DESIGN & DEV	115,049		
948	AAP EXPERIMENT DEVELOPMENT	33,000		
	INSTITUTION TOTALS		8,004,318	6,575,516

DARTMOUTH COLLEGE

181	TRAINING GRANTS	411,500		
188	PHYSICS AND ASTRONOMY SRT	17,158		
189	BIOSCIENCE SRT	129,389		
385	DATA ANALYSIS	109,332		
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,614,213		
883	BIOSATELLITES	27,845		
	INSTITUTION TOTALS		2,309,437	2,194,235

DELAWARE STATE COL

124	SPACE VEHICLE SYSTEMS SRT	550		
183	RESEARCH GRANTS	8,511		
	INSTITUTION TOTALS		9,061	4,835

DOWLING COLLEGE

188	PHYSICS AND ASTRONOMY SRT	3,800		
	INSTITUTION TOTALS		3,800	0

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

DREXEL UNIVERSITY

124	SPACE VEHICLE SYSTEMS SRT	414,343		
125	ELECTRONICS SYSTEMS SRT	22,054		
127	HUMAN FACTOR SYSTEMS SRT	32,057		
129	PFSEARCH PROGRAM SRT	112,000		
181	TRAINING GRANTS	115,200		
183	RESEARCH GRANTS	809,000		
933	SATURN V VEHICLE	36,975		
	INSTITUTION TOTALS		1,541,629	1,164,960

DUDLEY OBSERVATORY

188	PHYSICS AND ASTRONOMY SRT	504,283		
385	DATA ANALYSIS	60,000		
811	PIONEER INTERN QUIET SUN YR	38,000		
866	MANNED SATELLITE SCIENCE	47,250		
879	SOUNDING ROCKETS	689,965		
905	APOLLO APPLICATIONS SUPPORTING DEV	25,000		
914	APOLLO SPACECRAFT	23,900		
923	GEMINI SUPPORT	80,000		
942	APOLLO APPLICATIONS DESIGN & DEV	125,000		
948	AAP EXPERMFT DFVELOPMENT	342,960		
	INSTITUTION TOTALS		1,936,367	1,535,349

DUKE UNIVERSITY

000	MISCELLANEOUS RESEARCH	45,631		
120	POWER & ELECTRIC PROPULSION, SRT	293,127		
123	CHEMICAL AND SOLAR POWER SRT	122,904		
125	ELECTRONICS SYSTEMS SRT	275,566		
181	TRAINING GRANTS	793,400		
183	RESEARCH GRANTS	600,000		
189	BIOSCIENCE SRT	65,060		
	INSTITUTION TOTALS		2,195,688	1,818,150

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION UNIQUE PROJECT TITLE	---INSTITUTION TOTALS--		
		OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
DUQUESNE UNIVERSITY				
181	TRAINING GRANTS	100,700	100,700	74,094
	INSTITUTION TOTALS			
EAST TENN STATE UNIV				
124	SPACE VEHICLE SYSTEMS SRT	20,350	20,350	20,350
	INSTITUTION TOTALS			
EMORY UNIVERSITY				
124	SPACE VEHICLE SYSTEMS SRT	78,000		
127	HUMAN FACTOR SYSTEMS SRT	196,291		
129	RESEARCH PROGRAM SRT	47,099		
181	TRAINING GRANTS	211,400		
189	BIOSCIENCE SRT	814,711		
708	SMALL BIOTECHNOLOGY FLIGHTS	75,000		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	50,000		
883	BIOSATELLITES	214,621		
945	MSF EXPERIMENT DEFINITION	100,000		
	INSTITUTION TOTALS		1,787,122	1,457,847
FAIRFIELD UNIVERSITY				
160	EARTH OBSERVATIONS SR&T	17,823		
188	PHYSICS AND ASTRONOMY SRT	850		
607	METEOROLOGICAL SOUNDINGS	34,620		
	INSTITUTION TOTALS		53,293	24,307
FAIRLEIGH-DICKINSON U				
125	ELFCTRONICS SYSTEMS SRT	12,000	12,000	12,000
	INSTITUTION TOTALS			
FARMINGTON STATE COL				
000	MISCELLANEOUS RESEARCH	40,000	40,000	40,000
	INSTITUTION TOTALS			

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	FEDERAL CITY COLLEGE			
183	RESEARCH GRANTS	27,934		
	INSTITUTION TOTALS		27,934	0
	FLA INST CONT U STUD			
000	MISCELLANEOUS RESEARCH	89,210		
	INSTITUTION TOTALS		89,210	89,208
	FLORIDA INST OF TECH			
950	LAUNCH OPERATIONS SUPPORT	151,504		
	INSTITUTION TOTALS		151,504	62,705
	FLORIDA SOUTHERN COL			
127	HUMAN FACTOR SYSTEMS SPT	26,785		
	INSTITUTION TOTALS		26,785	26,785
	FLORIDA STATE UNIV			
000	MISCELLANEOUS RESEARCH	58,331		
129	RESEARCH PROGRAM SRT	178,374		
181	TRAINING GRANTS	681,700		
185	PLANETARY EXPLORATION	464,187		
	SRT SCIENCE			
188	PHYSICS AND ASTRONOMY SRT	14,832		
189	BIOSCIENCE SRT	1,576,960		
191	PLANETARY QUARANTINE	8,800		
196	PLANETARY ASTRONOMY	34,550		
640	EARTH RESOURCES	10,000		
	SURVEY-AIRCRAFT			
815	VIKING	26,100		
914	APOLLO SPACECRAFT	6,400		
933	SATURN V VEHICLE	45,920		
	INSTITUTION TOTALS		3,106,154	2,855,344

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
FLORIDA TECH UNIV				

125	ELECTRONICS SYSTEMS SRT	18,306		
722	HYPersonic RAMJET EXPERIMENT	19,164		
	INSTITUTION TOTALS		37,470	18,317
FORDHAM UNIVERSITY				

181	TRAINING GRANTS	230,100		
189	BIOSCIENCE SRT	6,548		
945	MSF EXPERIMENT DEFINITION	6,000		
948	AAP EXPERIMENT DEVELOPMENT	269,207		
949	APOLLO APPLICATIONS EXPERIMENT DEF	25,837		
	INSTITUTION TOTALS		537,692	328,848
FORSYTH DENTAL CNTR				

125	ELECTRONICS SYSTEMS SPT	70,113		
	INSTITUTION TOTALS		70,113	57,833
GEORG WASHINGTON U				

000	MISCELLANEOUS RESEARCH	12,112		
124	SPACE VEHICLE SYSTEMS SRT	373,574		
125	ELECTRONICS SYSTEMS SRT	264,586		
126	AERONAUTICAL VEHICLES ART	204,931		
130	MISSION ANALYSIS SRT	220,738		
141	IDENTIFICATION AND DISSEMINATION	609,537		
143	ECONOMIC STUDIES	903,708		
181	TRAINING GRANTS	498,900		
183	RESEARCH GRANTS	1,675,000		
188	PHYSICS AND ASTRONOMY SRT	178,899		
189	BIOSCIENCE SRT	1,097,635		
191	PLANETARY QUARANTINE	83,057		
311	NETWORK OPERATIONS-T&D ACQUISITION	22,001		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

GEORGE WASHINGTON U (CONTINUED)

385	DATA ANALYSIS	15,979		
630	APPLICATIONS TECHNOLOGY SATELLITES	3,400		
821	ORBITING SOLAR OBSERVATORIES	74,416		
841	ORBITING GEOPHYSICAL OBSRVATORIES	44,000		
851	ENERGETIC PARTICLES EXPLORERS	20,000		
879	SOUNDING ROCKETS	64,073		
	INSTITUTION TOTALS		6,366,546	4,631,647

GEORGETOWN UNIV

124	SPACE VEHICLE SYSTEMS SRT	302,981		
127	HUMAN FACTOR SYSTEMS SRT	219,675		
181	TRAINING GRANTS	460,200		
185	PLANETARY EXPLORATION SRT SCIENCE	130,558		
	INSTITUTION TOTALS		1,113,414	1,077,775

GEORGIA INST OF TECH

103	LAUNCH VEHICLE TECHN	48,262		
122	NUCLEAR ROCKETS PROPELLION SRT	178,608		
124	SPACE VEHICLE SYSTEMS SRT	148,167		
125	ELECTRONICS SYSTEMS SRT	732,154		
126	AERONAUTICAL VEHICLES ART	42,861		
128	CHEMICAL PROPELLION SRT	313,188		
129	RESEARCH PROGRAM SRT	556,517		
181	TRAINING GRANTS	1,689,300		
182	FACILITIES GRANTS	1,000,000		
183	RFSEARCH GRANTS	1,707,348		
185	PLANETARY EXPLORATION SRT SCIENCE	472,278		
188	PHYSICS AND ASTRONOMY SRT	393,537		
721	V/STOL AIRCRAFT TECHNOLOGY	25,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
		---INSTITUTION TOTALS--		
	GEORGIA INST OF TECH	(CONTINUED)		
722	HYPersonic RAMJET EXPERIMENT	190,000		
879	SOUNDING ROCKETS	26,921		
904	APOLLO SUPPORTING DEVELOPMENT	92,919		
908	ADVANCED SYSTEMS DEVELOPMENT	180,994		
931	SATURN I VEHICLE	31,203		
932	SATURN 1B VEHICLE	161,995		
933	SATURN V VEHICLE	662,878		
975	SPACE STATION	19,996		
	INSTITUTION TOTALS		8,674,126	7,319,252
	GORHAM STATE COLLEGE			
000	MISCELLANEOUS RESEARCH	40,000		
	INSTITUTION TOTALS		40,000	40,000
	GRAMBLING COLLEGE			
914	APOLLO SPACECRAFT	26,980		
	INSTITUTION TOTALS		26,980	0
	HAHNEMANN MED COL			
125	ELECTRONICS SYSTEMS SRT	9,606		
127	HUMAN FACTOR SYSTEMS SRT	9,605		
	INSTITUTION TOTALS		19,211	19,211
	HAMILTON COLLEGE			
384	DATA ANALYSIS-PLANETARY	5,000		
	INSTITUTION TOTALS		5,000	0
	HAMPTON INSTITUTE			
126	AERONAUTICAL VEHICLES ART	211,031		
183	RESEARCH GRANTS	11,125		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--	
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS DISBURSMNTS

HAMPTON INSTITUTE (CONTINUED)

736	GEN AVIATION AIRCRAFT TECH SUP RES	46,778	
	INSTITUTION TOTALS		268,934 186,527

HARDING COLLEGE

914	APOLLO SPACECRAFT	46,440	
948	AAP EXPERIMENT DEVELOPMENT	90,774	
961	SPACECRAFT MODIFICATIONS	45,000	
	INSTITUTION TOTALS		182,214 133,829

HARVARD UNIVERSITY

000	MISCELLANEOUS RESEARCH	17,759	
120	POWER & ELECTRIC PROPULSION, SRT	69,809	
124	SPACE VEHICLE SYSTEMS SRT	1,122,195	
125	ELECTRONICS SYSTEMS SRT	789,424	
127	HUMAN FACTOR SYSTEMS SRT	1,368,299	
129	RESEARCH PROGRAM SRT	144,000	
130	MISSION ANALYSIS SRT	39,987	
181	TRAINING GRANTS	276,000	
185	PLANETARY EXPLORATION SRT SCIENCE	1,048,725	
188	PHYSICS AND ASTRONOMY SRT	4,105,712	
189	BIOSCIENCE SRT	328,797	
195	LUNAR SCIENCE SRT	40,313	
383	DATA ANALYSIS-LUNAR	46,960	
708	SMALL BIOTECHNOLOGY FLIGHTS	28,875	
821	ORBITING SOLAR OBSERVATORIES	6,886,257	
822	ADV ORBITING SOLAR OBSERVATORIES	1,030,796	
841	ORBITING GEOPHYSICAL OBSERVATORIES	86,000	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	318,340	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

HARVARD UNIVERSITY (CONTINUED)

877	RADIO ASTRONOMY EXPLORERS	321,402		
879	SOUNDING ROCKETS	1,711,091		
904	APOLLO SUPPORTING DEVELOPMENT	42,075		
905	APOLLO APPLICATIONS SUPPORTING DEV	73,799		
908	ADVANCED SYSTEMS DEVELOPMENT	7,093		
911	MERCURY	8,333		
914	APOLLO SPACECRAFT	354,864		
923	GEMINI SUPPORT	85,397		
942	APOLLO APPLICATIONS DESIGN & DEV	22,000		
948	AAP EXPERIMENT DEVELOPMENT	18,212,000		
981	ADVANCED STUDIES-MANNED SPACE FLGT	16,590		
996	PROGRAM SUPPORT	60,000		
	INSTITUTION TOTALS		38,662,892	35,640,840

HAVERFORD COLLEGE

188	PHYSICS AND ASTRONOMY SRT	234,518		
	INSTITUTION TOTALS		234,518	166,876

HIRAM COLLEGE

120	POWER & ELECTRIC PROPULSION, SRT	119,466		
	INSTITUTION TOTALS		119,466	119,466

HOLLINS COLLEGE

189	BIOSCIENCE SRT	43,859		
	INSTITUTION TOTALS		43,859	43,858

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
HOUSTON BAPTIST COL				

914	APOLLO SPACECRAFT INSTITUTION TOTALS	40,100	40,100	0
HOWARD UNIVERSITY				

125	ELECTRONICS SYSTEMS SRT	20,000		
127	HUMAN FACTOR SYSTEMS SRT	317,573		
181	TRAINING GRANTS	352,300		
183	RESEARCH GRANTS	168,000		
185	PLANETARY EXPLORATION SRT SCIENCE	39,398		
188	PHYSICS AND ASTRONOMY SRT	48,000		
195	LUNAR SCIENCE SRT	49,622		
823	HELIOS	11,264		
INSTITUTION TOTALS			1,006,157	694,686
HUMBOLDT STATE COL				

914	APOLLO SPACECRAFT INSTITUTION TOTALS	15,965	15,965	15,965
ILL INST OF TECH				

122	NUCLEAR ROCKETS PROPULSION SRT	785,160		
124	SPACE VEHICLE SYSTEMS SRT	1,400		
125	ELECTRONICS SYSTEMS SRT	92,028		
128	CHEMICAL PROPULSION SRT	442,400		
129	RESEARCH PROGRAM SRT	39,219		
181	TRAINING GRANTS	990,400		
188	PHYSICS AND ASTRONOMY SRT	11,500		
914	APOLLO SPACECRAFT	44,837		
INSTITUTION TOTALS			2,406,944	2,205,434
INDIANA UNIVERSITY				

000	MISCELLANEOUS RESEARCH	25,899		
127	HUMAN FACTOR SYSTEMS SRT	108,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	INDIANA UNIVERSITY	(CONTINUED)		
129	RESEARCH PROGRAM SRT	45,167		
141	IDENTIFICATION AND DISSEMINATION	1,831,994		
143	ECONOMIC STUDIES	54,805		
181	TRAINING GRANTS	928,600		
183	RESEARCH GRANTS	44,623		
188	PHYSICS AND ASTRONOMY SRT	298,793		
189	BIOSCIENCE SRT	282,866		
879	SOUNDING ROCKETS	9,998		
914	APOLLO SPACECRAFT	336,020		
	INSTITUTION TOTALS		3,966,755	3,262,848
	IOWA STATE UNIV			
124	SPACE VEHICLE SYSTEMS SRT	14,770		
128	CHEMICAL PROPULSION SRT	245,257		
129	RESEARCH PROGRAM SRT	57,728		
181	TRAINING GRANTS	1,080,900		
195	LUNAR SCIENCE SRT	15,330		
841	ORBITING GEOPHYSICAL OBSERVATORIES	945,700		
	INSTITUTION TOTALS		2,359,685	2,086,486
	JOHN CARROLL UNIV			
124	SPACE VEHICLE SYSTEMS SRT	86,566		
129	RESEARCH PROGRAM SRT	29,240		
	INSTITUTION TOTALS		115,806	84,071
	JOHNS HOPKINS UNIV			
124	SPACE VEHICLE SYSTEMS SRT	65,969		
125	ELECTRONICS SYSTEMS SRT	229,759		
127	HUMAN FACTOR SYSTEMS SRT	32,704		
129	RESEARCH PROGRAM SPT	302,998		
164	COMMUNICATIONS SR&T	46,399		
181	TRAINING GRANTS	918,800		
188	PHYSICS AND ASTRONOMY SRT	253,291		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

JOHNS HOPKINS UNIV (CONTINUED)

189	BIOSCIENCE SRT	417,875		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	29,950		
879	SOUNDING ROCKETS	2,237,263	.	
883	BIOSATELLITES	60,000		
904	APOLLO SUPPORTING DEVELOPMENT	6,000		
914	APOLLO SPACECRAFT	60,000		
933	SATURN V VEHICLE	54,071		
945	MSF EXPERIMENT DEFINITION INSTITUTION TOTALS	70,000		
		4,785,079		4,315,826

KANSAS STATE UNIV

127	HUMAN FACTOR SYSTEMS SRT	193,574		
181	TRAINING GRANTS	760,700		
183	RESEARCH GRANTS	300,000		
185	PLANETARY EXPLORATION SRT SCIENCE	103,054		
189	BIOSCIENCE SRT INSTITUTION TOTALS	103,804		
		1,461,132		1,361,982

KENT STATE UNIV

125	ELECTRONICS SYSTEMS SRT	13,908		
129	RESEARCH PROGRAM SRT	207,860		
181	TRAINING GRANTS INSTITUTION TOTALS	287,900		
		509,668		403,173

LA STATE U-BAT ROUGE

103	LAUNCH VEHICLE TECHN	16,399		
124	SPACE VEHICLE SYSTEMS SRT	326,007		
125	ELECTRONICS SYSTEMS SRT	31,670		
126	AERONAUTICAL VEHICLES ART	16,864		
129	RESEARCH PROGRAM SRT	17,831		
181	TRAINING GRANTS	698,600		
183	RESEARCH GRANTS	524,224		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION UNIQUE PROJECT TITLE	---INSTITUTION TOTALS--		
FPN		OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
LA STATE U-BAT ROUGE (CONTINUED)				
188	PHYSICS AND ASTRONOMY SRT	761,543		
722	HYPersonic RAMJET EXPERIMENT	17,366		
914	APOLLO SPACECRAFT	126,415		
933	SATURN V VEHICLE	354,201		
	INSTITUTION TOTALS		2,891,120	2,102,868
LA STATE U-NEW ORLNS				
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	24,746		
	INSTITUTION TOTALS		24,746	0
LA STATE U-SHREVESPT				
188	PHYSICS AND ASTRONOMY SRT	6,220		
914	APOLLO SPACECRAFT	8,040		
	INSTITUTION TOTALS		14,260	7,784
LAMAR STATE COL TECH				
914	APOLLO SPACECRAFT	32,058		
	INSTITUTION TOTALS		32,058	9,110
LEHIGH UNIVERSITY				
124	SPACE VEHICLE SYSTEMS SRT	133,960		
125	ELECTRONICS SYSTEMS SRT	14,950		
126	AERONAUTICAL VEHICLES ART	258,597		
129	RESEARCH PROGRAM SRT	441,076		
181	TRAINING GRANTS	792,400		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	40,045		
914	APOLLO SPACECRAFT	80,130		
	INSTITUTION TOTALS		1,761,158	1,484,765

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
LINFIELD COLLEGE				

120	POWER & ELECTRIC PROPULSION, SRT	25,783		
120	RESEARCH PROGRAM SRT	25,000		
	INSTITUTION TOTALS		50,783	18,000
LONG ISLAND UNIV				

160	EARTH OBSERVATIONS SR&T	89,975		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	71,924		
914	APOLLO SPACECRAFT	36,500		
	INSTITUTION TOTALS		198,399	70,973
LOUISIANA POLY INST				

921	MISSION CONTROL SYSTEMS	28,087		
	INSTITUTION TOTALS		28,087	7,000
LOWELL TECH INST				

000	MISCELLANEOUS RFSEARCH	631,630		
124	SPACE VEHICLE SYSTEMS SRT	30,875		
125	ELECTRONICS SYSTEMS SRT	73,306		
141	IDENTIFICATION AND DISSEMINATION	40,000		
180	LAUNCH VEHICLE DEVELOPMENT SRT	112,429		
181	TRAINING GRANTS	61,200		
188	PHYSICS AND ASTRONOMY SRT	40,155		
736	GPN AVIATION AIRCRAFT TECH SUP RES	11,717		
797	COMMON USE SVC CARRIER ACCOUNT-CART	122,250		
	INSTITUTION TOTALS		1,123,562	793,508
MARQUETTE UNIVERSITY				

125	ELECTRONICS SYSTEMS SRT	59,430		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION UNIQUE PROJECT TITLE	---	INSTITUTION TOTALS--
FPN		OBLIGATIONS	OBLIGATIONS DISBURSMNTS
MARQUETTE UNIVERSITY		(CONTINUED)	
160	EARTH OBSERVATIONS SR&T	9,668	
181	TRAINING GRANTS	53,100	
	INSTITUTION TOTALS		122,198 116,760
MASS INST OF TECH			
000	MISCELLANEOUS RESEARCH	10,272	
101	SPACECRAFT TECHNOLOGY	1,014,792	
120	POWER & ELECTRIC PROPULSION, SRT	207,262	
122	NUCLEAR ROCKETS PROPULSION SRT	73,557	
123	CHEMICAL AND SOLAR POWER SRT	267,460	
124	SPACE VEHICLE SYSTEMS SRT	474,638	
125	ELECTRONICS SYSTEMS SRT	15,883,107	
126	AERONAUTICAL VEHICLES ART	1,211,241	
127	HUMAN FACTOR SYSTEMS SRT	647,011	
128	CHEMICAL PROPULSION SRT	53,722	
129	RESEARCH PROGRAM SRT	4,034,103	
130	MISSION ANALYSIS SRT	108,578	
141	IDENTIFICATION AND DISSEMINATION	31,300	
143	ECONOMIC STUDIES	474,240	
150	TRACKING & DATA ACQUISITION SRT	360,000	
160	EARTH OBSERVATIONS SR&T	572,467	
164	COMMUNICATIONS SR&T	182,252	
180	LAUNCH VEHICLE DEVELOPMENT SRT	220,237	
181	TRAINING GRANTS	1,418,500	
182	FACILITIES GRANTS	3,000,000	
183	RESEARCH GRANTS	6,619,242	
184	SOCIO-ECON STUDIES	165,266	
185	PLANETARY EXPLORATION SRT SCIENCE	3,197,240	
188	PHYSICS AND ASTRONOMY SRT	6,154,227	
189	BIOSCIENCE SRT	3,925,174	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

MASS INST OF TECH	(CONTINUED)
-------------------	-------------

195	LUNAR SCIENCE SRT	258,050
196	PLANETARY ASTRONOMY	120,000
311	NETWORK OPERATIONS-T&D ACQUISITION	4,852
383	DATA ANALYSIS-LUNAR	50,000
384	DATA ANALYSIS-PLANETARY	12,328
385	DATA ANALYSIS	572,900
630	APPLICATIONS TECHNOLOGY SATELLITES	253,112
684	ADVANCED STUDIES-LUNAR & PLANETARY	6,800
721	V/STOL AIRCRAFT TECHNOLOGY	131,076
808	MARINER-MARS 1964	78,760
811	PIONEER INTERN QUIET SUN YR	655,973
815	VIKING	82,313
817	MARINER-VENUS 1967	95,350
821	ORBITING SOLAR OBSERVATORIES	1,919,069
831	ORBITING ASTRONOMICAL OBSEVATORIES	7,425,379
841	ORBITING GEOPHYSICAL OBSERVATORIES	567,105
848	RETURNED LUNAR SAMPLE ANALYSIS	428,990
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	447,525
855	GEODETIC SATELLITES	75,000
856	SUNBLAZER	359,175
861	INTERPLANETARY EXPLORERS /IMP/	1,598,760
878	SMALL ASTRONOMY SATELLITES	200,000
879	OUNDING ROCKETS	703,234
904	APOLLO SUPPORTING DEVELOPMENT	2,364,179
905	APOLLO APPLICATIONS SUPPORTING DEV	3,563,899

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	MASS INST OF TECH	(CONTINUED)		
908	ADVANCED SYSTEMS DEVELOPMENT	3,623,263		
911	MERCURY	1,090,000		
914	APOLLO SPACECRAFT	35,555,814		
931	SATURN I VEHICLE	26,460		
932	SATURN 1B VEHICLE	109,060		
933	SATURN V VEHICLE	35,390		
942	APOLLO APPLICATIONS DESIGN & DEV	1,203,200		
945	MSF EXPERIMENT DEFINITION	230,002		
948	AAP EXPERIMENT DEVELOPMENT	98,668		
961	SPACEDRFT MODIFICATIONS	671,663		
975	SPACE STATION	17,600		
981	ADVANCED STUDIES-MANNED SPACE FLGT	617,695		
	INSTITUTION TOTALS	215,558,532	200,091,890	
	MEMPHIS STATE UNIV			
188	PHYSICS AND ASTRONOMY SRT	4,962		
	INSTITUTION TOTALS		4,962	0
	MIAMI UNIVERSITY			
183	RESEARCH GRANTS	41,599		
	INSTITUTION TOTALS		41,599	41,600
	MICHIGAN STATE UNIV			
129	RESEARCH PROGRAM. SRT	97,880		
181	TRAINING GRANTS	892,200		
183	RESEARCH GRANTS	39,492		
189	BIOSCIENCE SRT	333,773		
721	V/STOL AIRCRAFT TECHNOLOGY	12,000		
	INSTITUTION TOTALS		1,375,345	1,196,793

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
MICHIGAN TECH UNIV				

181	TRAINING GRANTS	94,500		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	31,158		
	INSTITUTION TOTALS		125,658	114,252
MISSISSIPPI STATE U				

103	LAUNCH VEHICLE TECHN	13,419		
124	SPACE VEHICLE SYSTEMS SRT	28,156		
125	ELECTRONICS SYSTEMS SRT	33,839		
126	AERONAUTICAL VEHICLES ART	75,700		
127	HUMAN FACTOR SYSTEMS SRT	112,715		
181	TRAINING GRANTS	233,300		
183	RESEARCH GRANTS	300,000		
189	BIOSCIENCE SRT	81,460		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	51,105		
904	APOLLO SUPPORTING DEVELOPMENT	104,758		
908	ADVANCED SYSTEMS DEVELOPMENT	39,288		
921	MISSION CONTROL SYSTEMS	90,000		
932	SATURN 1B VEHICLE	28,279		
933	SATURN V VEHICLE	633,429		
	INSTITUTION TOTALS		1,825,448	1,329,459
MONTANA STATE UNIV				

000	MISCELLANEOUS RESEARCH	25,542		
125	ELECTRONICS SYSTEMS SRT	17,314		
181	TRAINING GRANTS	379,700		
183	RESEARCH GRANTS	545,000		
188	PHYSICS AND ASTRONOMY SRT	22,600		
	INSTITUTION TOTALS		990,156	928,219
MORGAN STATE COLLEGE				

183	RESEARCH GRANTS	36,972		
	INSTITUTION TOTALS		36,972	19,421

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS---		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
NE LOUISIANA UNIV				

125	ELECTRONICS SYSTEMS SRT	42,340		
129	RESEARCH PROGRAM SRT	92,961		
931	SATURN I VEHICLE	12,374		
	INSTITUTION TOTALS		147,675	119,376
NEW JERSEY COL MED				

127	HUMAN FACTOR SYSTEMS SRT	50,000		
914	APOLLO SPACECRAFT	120,216		
	INSTITUTION TOTALS		170,216	120,216
NEW MEX INST MINING				

188	PHYSICS AND ASTRONOMY SRT	40,100		
914	APOLLO SPACECRAFT	2,998		
	INSTITUTION TOTALS		43,098	36,135
NEW MEXICO STATE U				

000	MISCELLANEOUS RESEARCH	101,750		
129	RESEARCH PROGRAM SRT	122,047		
150	TRACKING & DATA ACQUISITION SRT	129,096		
160	EARTH OBSERVATIONS SR&T	67,186		
164	COMMUNICATIONS SR&T	29,900		
180	LAUNCH VEHICLE DEVELOPMENT SRT	20,000		
181	TRAINING GRANTS	562,900		
183	RESEARCH GRANTS	505,000		
185	PLANETARY EXPLORATION SRT SCIENCE	1,062,304		
188	PHYSICS AND ASTRONOMY SRT	126,698		
196	PLANETARY ASTRONOMY	135,068		
311	NETWORK OPERATIONS-T&D ACQUISITION	1,537,812		
312	EQUIP & COMPONENTS-T&D ACQUISITION	156,478		
385	DATA ANALYSIS	15,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	---INSTITUTION TOTALS-- OBLIGATIONS OBLIGATIONS DISBURSMNTS
------------	-------------------------------------	--

NEW MEXICO STATE U		(CONTINUED)
--------------------	--	-------------

491	CENTAUR PROCUREMENT	140,999
492	DELTA PROCUREMENT	1,409,532
493	AGENA PROCUREMENT /EXCL GEMINI VEH/	439,999
494	ATLAS/OTHER THAN MERCURY/PROCUREMNT	19,000
497	SUSTAINING ENGINEERNG & MAINTENANCE	753,382
601	TIROS/TOS IMPROVEMENTS	21,533
604	NIMBUS	262,628
607	METEOROLOGICAL SOUNDINGS	2,190,352
622	ECHO A-12 /INCLUDES AVT/	6,000
626	RELAY	51,000
627	SYNCOM	31,606
709	SMALL SPACE VEHICLE FLIGHT PROJECT	9,000
803	SURVEYOP	10,000
807	MARINER B /LIQUIDATION ONLY/	22,500
811	PIONEER INTERN QUIET SUN YR	15,000
821	ORBITING SOLAR OBSERVATORIES	123,800
831	ORBITING ASTRONOMICAL OBSERVATORIES	30,000
841	ORBITING GEOPHYSICAL OBSERVATORIES	213,999
851	ENERGETIC PARTICLES EXPLORERS	10,000
852	ATMOSPHERE EXPLORERS	10,000
853	IONOSPHERE EXPLORERS	3,000
855	GEODETIC SATELLITES	49,515
861	INTERPLANETARY EXPLORERS /IMP/	101,255
870	UNITED KINGDOM SATELLITES	10,000
872	ISIS/INTERNL SAT-IONOSPHERE STUDY	28,230
879	SONDING ROCKETS	6,477,164

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	NEW MEXICO STATE U	(CONTINUED)		
891	CENTAUR DEVELOPMENT	156,000		
892	DELTA DEVELOPMENT /LIQUIDATN ONLY/	15,000		
914	APOLLO SPACECRAFT	108,378		
921	MISSION CONTROL SYSTEMS	129,207		
	INSTITUTION TOTALS		17,419,318	15,957,727
	NEW YORK MEDICAL COL			
127	HUMAN FACTOR SYSTEMS SRT	7,090		
	INSTITUTION TOTALS		7,090	7,090
	NEW YORK UNIVERSITY			
124	SPACE VEHICLE SYSTEMS SRT	233,327		
125	ELECTRONICS SYSTEMS SRT	477,880		
126	AERONAUTICAL VFHICLES ART	349,560		
128	CHEMICAL PROPULSION SRT	343,049		
129	RESEARCH PROGRAM SRT	1,090,277		
150	TRACKING & DATA ACQUISITION SRT	170,911		
160	EARTH OBSERVATIONS SR&T	471,288		
169	EARTH RESOURCES - SRT	59,629		
181	TRAINING GRANTS	1,136,100		
182	FACILITIES GRANTS	582,000		
183	RESEARCH GRANTS	1,259,271		
185	PLANETARY EXPLORATION SRT SCIENCE	55,434		
188	PHYSICS AND ASTRONOMY SRT	101,827		
189	BIOSCIENCE SRT	77,269		
630	APPLICATIONS TECHNOLOGY SATELLITES	62,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	664,843		
721	V/STOL AIRCRAFT TECHNOLOGY	26,723		
722	HYPersonic RAMJET EXPERIMENT	215,054		
	INSTITUTION TOTALS		7,376,442	6,569,276

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
NEWARK COLLEGE ENGRG				

125	ELECTRONICS SYSTEMS SRT	15,000		
128	CHEMICAL PROPULSION SRT	69,638		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	108,918		
905	APOLLO APPLICATIONS SUPPORTING DEV	22,631		
	INSTITUTION TOTALS		216,187	197,413
NO CAROLINA STATE U				

101	SPACECRAFT TECHNOLOGY	30,873		
124	SPACE VEHICLE SYSTEMS SRT	276,731		
125	ELECTRONICS SYSTEMS SRT	502,133		
126	AERONAUTICAL VEHICLES ART	182,480		
127	HUMAN FACTOR SYSTEMS SRT	367,500		
129	RESEARCH PROGRAM SRT	600,215		
150	TRACKING & DATA ACQUISITION SRT	34,631		
180	LAUNCH VEHICLE DEVELOPMENT SRT	31,956		
181	TRAINING GRANTS	1,057,000		
188	PHYSICS AND ASTRONOMY SRT	106,426		
189	BIOSCIENCE SRT	78,627		
730	RAM C /RADIO ATTENUATN MEASURMNTS/	27,000		
736	GEN AVIATION AIRCRAFT TECH SUP RES	166,918		
874	GERMAN RESEARCH SATELLITE	39,016		
883	BIOSATELLITES	27,072		
914	APOLLO SPACECRAFT	39,96?		
	INSTITUTION TOTALS		3,568,540	2,465,912
NO DAKOTA STATE UNIV				

181	TRAINING GRANTS	179,600		
189	BIOSCIENCE SRT	9,000		
	INSTITUTION TOTALS		188,600	172,373

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS---		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

NO TEXAS STATE UNIV

127	HUMAN FACTOR SYSTEMS SRT	24,696		
914	APOLLO SPACECRAFT	16,566		
	INSTITUTION TOTALS		41,262	26,095

NORTHEASTERN UNIV

000	MISCELLANEOUS RESEARCH	76,865		
120	POWER & ELECTRIC PROPULSION, SRT	138,439		
124	SPACE VEHICLE SYSTEMS SRT	30,000		
125	ELECTRONICS SYSTEMS SRT	510,070		
129	RESEARCH PROGRAM SRT	109,793		
181	TRAINING GRANTS	446,481		
872	ISIS/INTERNL SAT-IONOSPHERE STUDY	16,280		
877	RADIO ASTRONOMY EXPLORERS	44,418		
	INSTITUTION TOTALS		1,372,346	1,224,825

NORTHWESTERN UNIV

000	MISCELLANEOUS RESEARCH	112,000		
124	SPACE VEHICLE SYSTEMS SRT	218,608		
125	ELECTRONICS SYSTEMS SRT	317,155		
126	AERONAUTICAL VEHICLES ART	88,311		
129	RESEARCH PROGRAM SRT	340,962		
143	ECONOMIC STUDIES	213,529		
181	TRAINING GRANTS	1,052,800		
183	RESEARCH GRANTS	575,000		
185	PLANETARY EXPLORATION SRT SCIENCE	608,827		
188	PHYSICS AND ASTRONOMY SRT	281,940		
195	LUNAR SCIENCE SRT	27,202		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	125,244		
866	MANNED SATELLITE SCIENCE	60,484		
905	APOLLO APPLICATIONS SUPPORTING DEV	94,282		
914	APOLLO SPACECRAFT	1,208,200		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	NORTHWESTERN UNIV	(CONTINUED)		

923	GEMINI SUPPORT	46,501		
942	APOLLO APPLICATIONS DESIGN & DEV.	170,000		
945	MSF EXPERIMENT DEFINITION	97,418		
948	AAP EXPERIMENT DEVELOPMENT	537,718		
981	ADVANCED STUDIES-MANNED SPACE FLGT	21,469		
	INSTITUTION TOTALS	6,197,650	4,880,562	

	OAKLAND UNIVERSITY			

125	ELECTRONICS SYSTEMS SRT	50,000		
	INSTITUTION TOTALS		50,000	37,500

	OAKWOOD COLLEGE			

183	RESEARCH GRANTS	24,829		
	INSTITUTION TOTALS		24,829	21,431

	OHIO STATE UNIV			

000	MISCELLANEOUS RESEARCH	38,921		
124	SPACE VEHICLE SYSTEMS SRT	301,992		
125	ELECTRONICS SYSTEMS SRT	966,924		
127	HUMAN FACTOR SYSTEMS SRT	189,219		
129	RESEARCH PROGRAM SRT	481,498		
164	COMMUNICATIONS SR&T	54,000		
181	TRAINING GRANTS	1,050,151		
185	PLANETARY EXPLORATION SRT SCIENCE	396,702		
188	PHYSICS AND ASTRONOMY SRT	5,244		
189	BIOSCIENCE SRT	367,995		
622	ECHO A-12 /INCLUDES AVT/	24,994		
630	APPLICATIONS TECHNOLOGY SATELLITES	267,997		
720	SUPersonic AIRCRAFT TECHNOLOGY	25,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--	
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	DISBURSMNTS

OHIO STATE UNIV

(CONTINUED)

730	RAM C /RADIO ATTENUATN MEASURMNTS/	80,000	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	180,143	
855	GEODETIC SATELLITES	356,256	
904	APOLLO SUPPORTING DEVELOPMENT	174,411	
905	APOLLO APPLICATIONS SUPPORTING DEV	10,000	
908	ADVANCED SYSTEMS DEVELOPMENT	50,948	
914	APOLLO SPACECRAFT	202,552	
945	MSF EXPERIMENT DEFINITION	32,714	
981	ADVANCED STUDIES-MANNED SPACE FLGT	120,000	
	INSTITUTION TOTALS	5,377,661	4,373,290

OHIO UNIVERSITY

103	LAUNCH VEHICLE TECHN	90,839	
125	ELECTRONICS SYSTEMS SRT	24,277	
181	TRAINING GRANTS	192,600	
904	APOLLO SUPPORTING DEVELOPMENT	37,138	
	INSTITUTION TOTALS	344,854	308,132

OKLAHOMA CITY UNIV

189	BIOSCIENCE SRT	411,450	
	INSTITUTION TOTALS	411,450	411,450

OKLAHOMA STATE UNIV

000	MISCELLANEOUS RESEARCH	699,700	
103	LAUNCH VEHICLE TECHN	70,898	
120	POWER & ELECTRIC PROPELLSION, SRT	9,927	
123	CHEMICAL AND SOLAR POWER SRT	188,452	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

OKLAHOMA STATE UNIV (CONTINUED)

124	SPACE VEHICLE SYSTEMS SRT	111,428		
125	ELECTRONICS SYSTEMS SRT	23,185		
126	AERONAUTICAL VEHICLES ART	159,026		
129	RESEARCH PROGRAM SRT	49,426		
141	IDENTIFICATION AND DISSEMINATION	289,369		
181	TRAINING GRANTS	748,000		
183	RESEARCH GRANTS	412,500		
188	PHYSICS AND ASTRONOMY SRT	237,623		
841	ORBITING GEOPHYSICAL OBSERVATORIES	9,500		
851	INTERPLANETARY EXPLORERS /IMP/	18,214		
879	SOUNDING ROCKETS	223,616		
931	SATURN I VEHICLE	76,046		
933	SATURN V VEHICLE	315,450		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	10,550		
	INSTITUTION TOTALS		3,652,910	3,384,729

OLD DOMINION UNIV

124	SPACE VEHICLE SYSTEMS SRT	52,643		
125	ELECTRONICS SYSTEMS SRT	292,463		
126	AERONAUTICAL VEHICLES ART	190,944		
127	HUMAN FACTOR SYSTEMS SRT	24,021		
129	RESEARCH PROGRAM SRT	237,336		
181	TRAINING GRANTS	663,209		
188	PHYSICS AND ASTRONOMY SRT	25,000		
320	SPECIAL SUPPORT	8,000		
683	EARTH OBSERVATIONS ADVANCED STUDIES	25,070		
	INSTITUTION TOTALS		1,518,686	892,388

OREGON STATE UNIV

000	MISCELLANEOUS RESEARCH	16,050		
124	SPACE VEHICLE SYSTEMS SRT	20,340		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	OREGON STATE UNIV	(CONTINUED)		

181	TRAINING GRANTS	778,500		
185	PLANETARY EXPLORATION	62,140		
	SRT SCIENCE			
189	BIOSCIENCE SRT	153,847		
195	LUNAR SCIENCE SRT	50,000		
383	DATA ANALYSIS-LUNAR	50,000		
849	APOLLO APPL EXPERIMENT	49,014		
	DEFIN /SSA/			
914	APOLLO SPACECRAFT	128,300		
	INSTITUTION TOTALS		1,308,191	1,110,271
PAN AMERICAN COLLEGE				

311	NETWORK OPERATIONS-T&D	16,000		
	ACQUISITION			
855	GEODETIC SATELLITES	45,000		
	INSTITUTION TOTALS		61,000	57,670
PENNSYLVANIA STATE U				

120	POWER & ELECTRIC	34,815		
	PROPELLION, SRT			
123	CHEMICAL AND SOLAR POWER	29,122		
	SRT			
124	SPACE VEHICLE SYSTEMS SRT	137,798		
125	ELECTRONICS SYSTEMS SRT	426,076		
126	AERONAUTICAL VEHICLES ART	273,183		
127	HUMAN FACTOR SYSTEMS SRT	28,778		
128	CHEMICAL PROPELLION SRT	691,170		
129	RESEARCH PROGRAM SRT	123,312		
181	TRAINING GRANTS	1,327,271		
183	RESEARCH GRANTS	1,400,000		
185	PLANETARY EXPLORATION	97,563		
	SRT SCIENCE			
188	PHYSICS AND ASTRONOMY SRT	1,754,555		
189	BIOSCIENCE SRT	1,238,920		
195	LUNAR SCIENCE SRT	3,000		
383	DATA ANALYSIS-LUNAR	15,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--	
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	DISBURSMNTS
PENNSYLVANIA STATE U			
(CONTINUED)			
385	DATA ANALYSIS	16,334	
720	SUPERSONIC AIRCRAFT TECHNOLOGY	58,971	
721	V/STOL AIRCRAFT TECHNOLOGY	207,540	
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	1,000	
879	SOUNDING ROCKETS	567,771	
914	APOLLO SPACECRAFT	31,817	
924	APOLLO SPACE OPERATIONS	33,490	
933	SATURN V VEHICLE	32,557	
	INSTITUTION TOTALS	8,530,043	6,547,997
POLY INST BROOKLYN			
124	SPACE VEHICLE SYSTEMS SRT	36,255	
125	ELECTRONICS SYSTEMS SRT	392,536	
127	HUMAN FACTOR SYSTEMS SRT	55,983	
129	RESEARCH PROGRAM SRT	553,787	
150	TRACKING & DATA ACQUISITION SRT	8,752	
160	EARTH OBSERVATIONS SR&T	11,836	
181	TRAINING GRANTS	1,234,200	
182	FACILITIES GRANTS	632,000	
188	PHYSICS AND ASTRONOMY SRT	54,914	
	INSTITUTION TOTALS	2,980,263	2,757,782
PRAIRIE VIEW A&M COL			
183	RESEARCH GRANTS	63,908	
	INSTITUTION TOTALS	63,908	47,426
PRINCETON UNIVERSITY			
104	PROPULSION TECHNOLOGY	393,000	
120	POWER & ELECTRIC PROPULSION, SRT	1,302,912	
122	NUCLEAR ROCKETS PROPULSION SRT	378,000	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	---INSTITUTION TOTALS--		
		OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	PRINCETON UNIVERSITY	(CONTINUED)		
124	SPACE VEHICLE SYSTEMS SRT	175,990		
125	ELECTRONICS SYSTEMS SRT	191,204		
126	AERONAUTICAL VEHICLES ART	190,285		
128	CHEMICAL PROPULSION SRT	2,906,769		
129	RESEARCH PROGRAM SRT	775,394		
160	EARTH OBSERVATIONS SR&T	45,432		
180	LAUNCH VEHICLE DEVELOPMENT SRT	748,685		
181	TRAINING GRANTS	1,152,800		
182	FACILITIES GRANTS	250,000		
183	RESEARCH GRANTS	23,144		
185	PLANETARY EXPLORATION SRT SCIENCE	247,073		
188	PHYSICS AND ASTRONOMY SRT	3,929,011		
189	BIOSCIENCE SRT	496,794		
195	LUNAR SCIENCE SRT	11,500		
311	NETWORK OPERATIONS-T&D ACQUISITION	24,730		
383	DATA ANALYSIS-LUNAR	15,000		
385	DATA ANALYSIS	25,000		
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	110,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	15,000		
721	V/STOL AIRCRAFT TECHNOLOGY	190,380		
726	M-1 ENGINE DEVELOPMENT	3,500		
736	GEN AVIATION AIRCRAFT TECH SUP RES	213,446		
815	VIKING	3,000		
831	ORBITING ASTRONOMICAL OBSERVATORIES	14,636,055		
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	10,000		
879	SOUNDING ROCKETS	245,666		
881	INFRARED SPECTROSCOPY	526,321		
883	BIOSATELLITES	30,000		
914	APOLLO SPACECRAFT	110,066		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
PRINCETON UNIVERSITY				(CONTINUED)
933	SATURN V VEHICLE	79,439		
945	MSF EXPERIMENT DEFINITION	44,000		
948	AAP EXPERIMENT DEVELOPMENT	42,599		
975	SPACE STATION	19,949		
	INSTITUTION TOTALS		29,562,144	26,304,522
PROVIDENCE COLLEGE				
160	EARTH OBSERVATIONS SR&T	10,000		
	INSTITUTION TOTALS		10,000	2,500
PURDUF UNIVERSITY				
124	SPACE VEHICLE SYSTEMS SRT	418,626		
125	ELECTRONICS SYSTEMS SRT	492,798		
126	AERONAUTICAL VEHICLES ART	170,984		
127	HUMAN FACTOR SYSTEMS SRT	49,984		
128	CHEMICAL PROPULSION SRT	568,299		
129	RESEARCH PROGRAM SPT	52,247		
160	EARTH OBSERVATIONS SR&T	300,000		
180	LAUNCH VEHICLE DEVELOPMENT SRT	100,000		
181	TRAINING GRANTS	1,550,700		
182	FACILITIES GRANTS	829,380		
183	RESEARCH GRANTS	1,623,540		
185	PLANETARY EXPLORATION SRT SCIENCE	122,527		
188	PHYSICS AND ASTRONOMY SRT	515,068		
189	BIOSCIENCE SRT	53,478		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	62,535		
721	V/STOL AIRCRAFT TECHNOLOGY	62,228		
904	APOLLO SUPPORTING DEVELOPMENT	64,109		
914	APOLLO SPACECRAFT	11,000		
933	SATURN V VEHICLE	362,597		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	PURDUE UNIVERSITY	(CONTINUED)		
981	ADVANCED STUDIES-MANNED SPACE FLGT	224,998		
	INSTITUTION TOTALS		7,635,098	6,541,984
	RENSSELAER POLY INST			
120	POWER & ELECTRIC PROPULSION, SRT	117,900		
122	NUCLEAR ROCKETS PROPULSION SRT	93,000		
123	CHEMICAL AND SOLAR POWER SRT	23,560		
124	SPACE VEHICLE SYSTEMS SRT	685,969		
125	ELECTRONICS SYSTEMS SRT	311,754		
126	AERONAUTICAL VEHICLES ART	63,080		
127	HUMAN FACTOR SYSTEMS SRT	119,500		
128	CHEMICAL PROPULSION SRT	8,200		
129	RESEARCH PROGRAM SRT	3,731,499		
150	TRACKING & DATA ACQUISITION SRT	2,453		
181	TRAINING GRANTS	1,389,800		
182	FACILITIES GRANTS	1,500,000		
183	RESEARCH GRANTS	300,000		
185	PLANETARY EXPLORATION SRT SCIENCE	923,400		
186	PLANETARY EXPLORATION SRT AD TEC DV	292,000		
188	PHYSICS AND ASTRONOMY SRT	654,782		
731	CHEMICAL ROCKET EXPER ENGINEERING	25,000		
817	MARINER-VENUS 1967	28,000		
831	ORBITING ASTRONOMICAL OBSERVATORIES	35,100		
905	APOLLO APPLICATIONS SUPPORTING DEV	57,997		
908	ADVANCED SYSTEMS DEVELOPMENT	113,950		
	INSTITUTION TOTALS		10,476,944	9,074,914

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	RENSSELAER POLY-CONN			
<hr/>				
125	ELECTRONICS SYSTEMS SRT	101,600		
	INSTITUTION TOTALS		101,600	66,129
<hr/>				
	RICE UNIVERSITY			
<hr/>				
126	AERONAUTICAL VEHICLES ART	73,090		
127	HUMAN FACTOR SYSTEMS SRT	49,330		
129	RESEARCH PROGRAM SRT	3,175,000		
150	TRACKING & DATA ACQUISITION SRT	22,272		
181	TRAINING GRANTS	1,386,700		
182	FACILITIES GRANTS	1,600,000		
183	RESEARCH GRANTS	1,650,000		
185	PLANETARY EXPLORATION SRT SCIENCE	212,563		
188	PHYSICS AND ASTRONOMY SRT	934,907		
196	PLANETARY ASTRONOMY	39,922		
385	DATA ANALYSIS	49,997		
630	APPLICATIONS TECHNOLOGY SATELLITES	288,536		
841	ORBITING GEOPHYSICAL OBSERVATORIES	247,172		
848	RETURNED LUNAR SAMPLE ANALYSIS	13,783		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	70,000		
859	UNIVERSITY EXPLORERS /RICE UNIV/	4,074,017		
867	MANNED LUNAR SCIENCE	88,715		
879	SOUNDING ROCKETS	1,865,847		
883	BIOSATELLITES	190,463		
904	APOLLO SUPPORTING DEVELOPMENT	52,122		
914	APOLLO SPACECRAFT	5,317,578		
942	APOLLO APPLICATIONS DESIGN & DEV	567,234		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	60,396		
	INSTITUTION TOTALS	22,029,644	19,506,507	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
ROSE POLYTECHNIC				

125	ELECTRONICS SYSTEMS SRT	38,153		
126	AERONAUTICAL VEHICLES ART	9,139		
	INSTITUTION TOTALS		47,292	21,291
RUTGERS-STATE UNIV				

125	ELECTRONICS SYSTEMS SRT	128,545		
181	TRAINING GRANTS	620,800		
183	RESEARCH GRANTS	29,954		
630	APPLICATIONS TECHNOLOGY SATELLITES	18,673		
721	V/STOL AIRCRAFT TECHNOLOGY	39,578		
821	ORBITING SOLAR OBSERVATORIES	1,864,674		
	INSTITUTION TOTALS		2,702,224	2,470,397
S FRANCIS STATE COL				

189	BIOSCIENCE SRT	26,823		
	INSTITUTION TOTALS		26,823	26,823
SAN DIEGO STATE COL				

903	GEMINI SUPPORTING DEVELOPMENT	24,418		
	INSTITUTION TOTALS		24,418	24,417
SAN JOSE STATE COL				

127	HUMAN FACTOR SYSTEMS SRT	190,555		
160	EARTH OBSERVATIONS SRET	36,929		
189	BIOSCIENCE SPT	28,812		
708	SMALL BIOTECHNOLOGY FLIGHTS	1,127		
879	OUNDING ROCKETS	16,741		
	INSTITUTION TOTALS		274,164	164,695

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
SETON HALL UNIV				

129	RESEARCH PROGRAM SRT	27,423		
904	APOLLO SUPPORTING DEVELOPMENT	67,624		
923	GEMINI SUPPORT	98,741		
	INSTITUTION TOTALS		193,788	193,788
SO DAKOTA SCHL MINES				

125	ELECTRONICS SYSTEMS SRT	20,925		
150	TRACKING & DATA ACQUISITION SRT	9,955		
183	RESEARCH GRANTS	100,000		
195	LUNAR SCIENCE SRT	3,750		
383	DATA ANALYSIS-LUNAR	20,000		
	INSTITUTION TOTALS		154,630	58,538
SO DAKOTA STATE UNIV				

125	ELECTRONICS SYSTEMS SRT	6,262		
126	AERONAUTICAL VEHICLES ART	32,266		
	INSTITUTION TOTALS		38,528	14,262
SOUTHEASTN STATE COL				

141	IDENTIFICATION AND DISSEMINATION	506,124		
143	ECONOMIC STUDIES	125,000		
	INSTITUTION TOTALS		631,124	566,515
SOUTHERN ILLINOIS U				

124	SPACE VEHICLE SYSTEMS SRT	184,082		
127	HUMAN FACTOR SYSTEMS SRT	63,399		
129	RESEARCH PROGRAM SRT	17,558		
181	TRAINING GRANTS	93,000		
	INSTITUTION TOTALS		358,039	357,209

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS--	
			OBLIGATIONS	DISBURSMNTS
SOUTHERN METHODIST U				
<hr/>				
101	SPACECRAFT TECHNOLOGY	307,073		
123	CHEMICAL AND SOLAR POWER	26,368		
SRT				
124	SPACE VEHICLE SYSTEMS SRT	77,700		
125	ELECTRONICS SYSTEMS SRT	119,745		
129	RESEARCH PROGRAM SRT	28,500		
160	EARTH OBSERVATIONS SR&T	45,283		
181	TRAINING GRANTS	270,000		
183	RESEARCH GRANTS	600,000		
190	MANNED SPACE SCIENCES SRT	208,000		
914	APOLLO SPACECRAFT	10,997		
942	APOLLO APPLICATIONS DESIGN & DEV	187,828		
	INSTITUTION TOTALS		1,881,494	1,587,648
SOUTHERN UNIVERSITY				
<hr/>				
129	RESEARCH PROGRAM SRT	10,558		
	INSTITUTION TOTALS		10,558	5,955
ST JOHNS UNIVERSITY				
<hr/>				
189	BIOSCIENCE SRT	46,995		
	INSTITUTION TOTALS		46,995	46,995
ST JOSEPHS COL-CONN				
<hr/>				
914	APOLLO SPACECRAFT	5,500		
	INSTITUTION TOTALS		5,500	2,750
ST LOUIS UNIVERSITY				
<hr/>				
126	AERONAUTICAL VEHICLES ART	108,005		
130	MISSION ANALYSIS SRT	116,720		
181	TRAINING GRANTS	757,800		
189	BIOSCIENCE SRT	36,558		
721	V/STOL AIRCRAFT TECHNOLOGY	45,689		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	ST LOUIS UNIVERSITY	(CONTINUED)		
948	AAP EXPERIMENT DEVELOPMENT INSTITUTION TOTALS	49,860	1,114,632	845,277
	ST U NY-DNST MED CTR			
127	HUMAN FACTOR SYSTEMS SRT INSTITUTION TOTALS	4,350	4,350	0
	STANFORD UNIVERSITY			
120	POWER & ELECTRIC PROPULSION, SRT	783,049		
123	CHEMICAL AND SOLAR POWER SRT	451,986		
124	SPACE VEHICLE SYSTEMS SRT	58,413		
125	ELECTRONICS SYSTEMS SRT	2,543,422		
126	AERONAUTICAL VEHICLES ART	373,836		
127	HUMAN FACTOR SYSTEMS SRT	1,802,233		
129	RESEARCH PROGRAM SRT	2,564,395		
130	MISSION ANALYSIS SRT	66,726		
141	IDENTIFICATION AND DISSEMINATION	17,000		
160	EARTH OBSERVATIONS SR&T	471,716		
169	EARTH RESOURCES - SRT	51,808		
181	TRAINING GRANTS	3,449,774		
182	FACILITIES GRANTS	2,615,000		
183	RESEARCH GRANTS	30,000		
185	PLANETARY EXPLORATION SRT SCIENCE	1,248,169		
188	PHYSICS AND ASTRONOMY SRT	4,650,668		
189	BIOSCIENCE SRT	3,657,925		
195	LUNAR SCIENCE SRT	40,000		
383	DATA ANALYSIS-LUNAR	85,026		
385	DATA ANALYSIS	468,568		
630	APPLICATIONS TECHNOLOGY SATELLITES	461,881		
684	ADVANCED STUDIES-LUNAR & PLANETARY	43,200		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS---		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

STANFORD UNIVERSITY (CONTINUED)

721	V/STOL AIRCRAFT TECHNOLOGY	118		
797	COMMON USF SVC CARRIER ACCOUNT-OART	2,420		
808	MARINER-MARS 1964	96,441		
811	PIONEER INTERN QUIET SUN YR	3,379,944		
815	VIKING	53,502		
817	MARINER-VENUS 1967	94,778		
841	ORBITING GEOPHYSICAL OBSERVATORIES	3,022,565		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	219,029		
861	INTERPLANETARY EXPLORERS /IMP/	217,000		
873	BEACON EXPLORERS	330,556		
897	GAMA RAY ASTRONMY SAT	122,526		
914	APOLLO SPACECRAFT	367,849		
942	APOLLO APPLICATIONS DESIGN & DEV	261,599		
945	MSF EXPERIMENT DEFINITION	23,000		
948	AAP EXPERIMENT DEVELOPMENT	75,228		
975	SPACE STATION	20,000		
	INSTITUTION TOTALS	34,221,350	29,947,408	

STATE U NY-A&T-ALFRD

914	APOLLO SPACECRAFT	32,500		
	INSTITUTION TOTALS		32,500	0

STATE U NY-STONY BRK

125	ELECTRONICS SYSTEMS SRT	64,579		
129	RESEARCH PROGRAM SRT	197,159		
181	TRAINING GRANTS	358,168		
183	RESEARCH GRANTS	80,000		
188	PHYSICS AND ASTRONOMY SRT	322,398		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	STATE U NY-STONY BRK	(CONTINUED)		

848	RETURNED LUNAR SAMPLE ANALYSIS	379,557		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	30,000		
914	APOLLO SPACECRAFT	387,802		
942	APOLLO APPLICATIONS DESIGN & DEV	228,900		
	INSTITUTION TOTALS		2,048,563	1,617,771
	STATE UNIV NY-ALBANY			

183	RESEARCH GRANTS	30,000		
185	PLANETARY EXPLORATION SPT SCIENCE	32,745		
188	PHYSICS AND ASTRONOMY SRT	19,280		
189	BIOSCIENCE SRT	51,601		
	INSTITUTION TOTALS		133,626	86,420
	STATE UNIV NY-BUFFAL			

000	MISCELLANEOUS RESEARCH	168,046		
181	TRAINING GRANTS	177,000		
189	BIOSCIENCE SPT	741,787		
	INSTITUTION TOTALS		1,086,833	869,695
	STEVENS INST OF TECH			

125	ELECTRONICS SYSTEMS SRT	168,229		
126	AERONAUTICAL VEHICLES ART	109,083		
128	CHEMICAL PROPULSION SRT	212,237		
129	RESEARCH PROGRAM SRT	317,030		
181	TRAINING GRANTS	566,500		
188	PHYSICS AND ASTRONOMY SRT	27,963		
721	V/STOL AIRCRAFT TECHNOLOGY	55,000		
	INSTITUTION TOTALS		1,456,042	1,346,717

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	SUFFOLK UNIVERSITY			
<hr/>				
125	ELECTRONICS SYSTEMS SRT	19,762	19,762	14,239
	INSTITUTION TOTALS			
<hr/>				
	SYRACUSE UNIVERSITY			
<hr/>				
000	MISCELLANEOUS RESEARCH	123,500		
124	SPACE VEHICLE SYSTEMS SRT	54,976		
126	AERONAUTICAL VEHICLES ART	315,494		
127	HUMAN FACTOR SYSTEMS SRT	15,480		
129	RESEARCH PROGRAM SRT	419,474		
143	ECONOMIC STUDIES	5,655		
160	EARTH OBSERVATIONS SR&T	49,000		
181	TRAINING GRANTS	948,900		
183	RESEARCH GRANTS	1,020,000		
189	BIOSCIENCE SRT	51,453		
211	NETWORK OPERATIONS-T&D ACQUISITION	27,506		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	186,263		
722	HYPersonic RAMJET EXPERIMENT	34,846		
	INSTITUTION TOTALS		3,252,547	2,509,202
<hr/>				
	TALLADEGA COLLEGE			
<hr/>				
183	RESEARCH GRANTS	18,658	18,658	10,387
	INSTITUTION TOTALS			
<hr/>				
	TEMPLE UNIVERSITY			
<hr/>				
128	CHEMICAL PROPULSION SRT	44,695		
129	RFSEARCH PROGRAM SRT	36,821		
181	TRAINING GRANTS	185,800		
188	PHYSICS AND ASTRONOMY SRT	469,470		
385	DATA ANALYSIS	50,000		
709	SMALL SPACE VEHICLE FLIGHT PROJECT	12,115		
841	ORBITING GEOPHYSICAL OBSERVATORIES	118,600		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	TEMPLE UNIVERSITY	(CONTINUED)		

861	INTERPLANETARY EXPLORERS /IMP/	578,600		
879	SOUNDING ROCKETS	50,285		
	INSTITUTION TOTALS		1,546,386	1,218,697
	TENNESSEE TECH U			

124	SPACE VEHICLE SYSTEMS SRT	13,069		
607	METEOROLOGICAL SOUNDINGS	50,012		
908	ADVANCED SYSTEMS DEVELOPMENT	25,749		
914	APOLLO SPACECRAFT	66,616		
	INSTITUTION TOTALS		155,446	128,955
	TEXAS A&I UNIVERSITY			

914	APOLLO SPACECRAFT	11,463		
	INSTITUTION TOTALS		11,463	0
	TEXAS A&M UNIVERSITY			

000	MISCELLANEOUS RESEARCH	80,726		
124	SPACE VEHICLE SYSTEMS SRT	692,724		
126	AERONAUTICAL VEHICLES ART	69,531		
127	HUMAN FACTOR SYSTEMS SRT	66,021		
160	EARTH OBSERVATIONS SR&T	16,000		
181	TRAINING GRANTS.	1,348,600		
182	FACILITIES GRANTS	1,000,000		
183	RESEARCH GRANTS	881,000		
185	PLANETARY EXPLORATION SRT SCIENCE	264,773		
640	EARTH RESOURCES SURVEY-AIRCRAFT	28,075		
721	V/STOL AIRCRAFT TECHNOLOGY	301,533		
908	ADVANCED SYSTEMS DEVELOPMENT	50,000		
914	APOLLO SPACECRAFT	689,222		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
TEXAS A&M UNIVERSITY		(CONTINUED)		
<hr/>				
921	MISSION CONTROL SYSTEMS	24,792		
951	SPACECRAFT MODIFICATIONS	49,979		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	31,112		
	INSTITUTION TOTALS		5,594,088	4,711,376
TEXAS CHRISTIAN UNIV		<hr/>		
124	SPACE VEHICLE SYSTEMS SRT	80,000		
125	ELECTRONICS SYSTEMS SRT	88,222		
127	HUMAN FACTOR SYSTEMS SRT	370,517		
181	TRAINING GRANTS	277,800		
	INSTITUTION TOTALS		816,539	742,737
TEXAS SOUTHERN UNIV		<hr/>		
000	MISCELLANEOUS RESEARCH	78,433		
183	RESEARCH GRANTS	16,000		
	INSTITUTION TOTALS		94,433	81,620
TEXAS TECH COLLEGE		<hr/>		
127	HUMAN FACTOR SYSTEMS SRT	99,925		
181	TRAINING GRANTS	538,700		
866	MANNED SATELLITE SCIENCE	24,474		
914	APOLLO SPACECRAFT	58,954		
921	MISSION CONTROL SYSTEMS	27,021		
961	SPACECRAFT MODIFICATIONS	19,993		
975	SPACE STATION	15,000		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	45,241		
	INSTITUTION TOTALS		829,308	600,809
TEXAS WOMANS UNTV		<hr/>		
127	HUMAN FACTOR SYSTEMS SRT	16,221		
189	BIOSCIENCE SRT	291,933		
883	BIOSATELLITES	251,754		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

TEXAS WOMANS UNIV (CONTINUED)

914	APOLLO SPACECRAFT	179,782		
923	GEMINI SUPPORT	18,500		
948	AAP EXPERIMENT DEVELOPMENT	131,583		
949	APOLLO APPLICATIONS EXPERIMENT DEF	4,024		
	INSTITUTION TOTALS		893,797	796,730

TUFTS UNIVERSITY

125	ELECTRONICS SYSTEMS SRT	17,966		
127	HUMAN FACTOR SYSTEMS SRT	47,571		
180	LAUNCH VEHICLE DEVELOPMENT SRT	10,759		
181	TRAINING GRANTS	231,700		
914	APOLLO SPACECRAFT	49,784		
	INSTITUTION TOTALS		357,780	333,035

TULANE UNIVERSITY

103	LAUNCH VEHICLE TECHN	111,800		
124	SPACE VEHICLE SYSTEMS SRT	65,967		
125	ELECTRONICS SYSTEMS SRT	26,000		
127	HUMAN FACTOR SYSTEMS SRT	159,449		
128	CHEMICAL PROPULSION SRT	25,570		
129	RESEARCH PROGRAM SRT	194,711		
160	EARTH OBSERVATIONS SR&T	34,499		
181	TRAINING GRANTS	824,800		
933	SATURN V VEHICLE	188,454		
	INSTITUTION TOTALS		1,631,250	1,500,267

TUSKEGEE INSTITUTE

183	RESEARCH GRANTS	48,251		
	INSTITUTION TOTALS		48,251	45,044

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	U ARKANSAS-MEDL CNTR			
127	HUMAN FACTOR SYSTEMS SRT	57,495	57,495	57,495
	INSTITUTION TOTALS			
127	HUMAN FACTOR SYSTEMS SRT	10,000	10,000	6,979
	INSTITUTION TOTALS			
	UNION COLLEGE			
129	RESEARCH PROGRAM SRT	20,000	20,000	20,000
	INSTITUTION TOTALS			
	UNIV ALA-BIRMINGHAM			
127	HUMAN FACTOR SYSTEMS SRT	15,000	15,000	15,000
	INSTITUTION TOTALS			
	UNIV ALA-HUNTSVILLE			
120	POWER & ELECTRIC PROPULSION, SRT	60,000		
124	SPACE VEHICLE SYSTEMS SRT	96,074		
125	ELECTRONICS SYSTEMS SRT	6,638		
129	RESEARCH PROGRAM SRT	25,000		
141	IDENTIFICATION AND DISSEMINATION	37,819		
150	TRACKING & DATA ACQUISITION SRT	14,365		
183	RESEARCH GRANTS	250,000		
188	PHYSICS AND ASTRONOMY SRT	10,048		
914	APOLLO SPACECRAFT	20,170		
932	SATURN 1B VEHICLE	15,196		
933	SATURN V VEHICLE	427,995		
964	SATURN WORKSHOP	74,388		
	INSTITUTION TOTALS	1,037,693	499,855	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV ALA-TUSCALOOSA

103	LAUNCH VEHICLE TECHN	185,882		
120	POWER & ELECTRIC PROPULSION, SRT	145,370		
124	SPACE VEHICLE SYSTEMS SRT	507,897		
125	ELECTRONICS SYSTEMS SRT	602,194		
129	RESEARCH PROGRAM SRT	790,723		
150	TRACKING & DATA ACQUISITION SRT	234,219		
181	TRAINING GRANTS	1,214,208		
183	RESEARCH GRANTS	2,595,995		
904	APOLLO SUPPORTING DEVELOPMENT	235,007		
908	ADVANCED SYSTEMS DEVELOPMENT	28,882		
931	SATURN I VEHICLE	46,340		
932	SATURN 1B VEHICLE	73,921		
933	SATURN V VEHICLE	716,016		
945	MSF EXPERIMENT DEFINITION	99,939		
	INSTITUTION TOTALS		7,476,593	6,701,121

UNIV ARKANSAS-FAYETV

124	SPACE VEHICLE SYSTEMS SRT	37,010		
125	ELECTRONICS SYSTEMS SRT	282,111		
129	RESEARCH PROGRAM SRT	23,902		
181	TRAINING GRANTS	742,600		
	INSTITUTION TOTALS		1,085,623	982,274

UNIV ARKANSAS-LTL RK

185	PLANETARY EXPLORATION SRT SCIENCE	10,397		
188	PHYSICS AND ASTRONOMY SRT	39,730		
841	ORBITING GEOPHYSICAL OBSERVATORIES	20,511		
	INSTITUTION TOTALS		70,638	70,639

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	---INSTITUTION TOTALS-- OBLIGATIONS OBLIGATIONS DISBURSMNTS
UNIV CALIF-BERKELEY		
000	MISCELLANEOUS RESEARCH	420,012
120	POWER & ELECTRIC PROPELLION, SRT	475,620
123	CHEMICAL AND SOLAR POWER SRT	69,933
124	SPACE VEHICLE SYSTEMS SRT	202,550
125	ELECTRONICS SYSTEMS SRT	654,870
126	AERONAUTICAL VEHICLES ART	20,700
127	HUMAN FACTOR SYSTEMS SRT	2,133,887
129	RESEARCH PROGRAM SRT	1,252,553
141	IDENTIFICATION AND DISSEMINATION	337,960
143	ECONOMIC STUDIES	650,000
160	EARTH OBSERVATIONS SR&T	133,575
181	TRAINING GRANTS	1,063,800
182	FACILITIES GRANTS	1,990,000
183	RESEARCH GRANTS	3,159,775
185	PLANFTARY EXPLORATION SRT SCIENCE	2,205,505
186	PLANETARY EXPLORATION SRT AD TEC DV	129,700
188	PHYSICS AND ASTRONOMY SRT	4,341,770
189	BIOSCIENCE SRT	7,891,702
195	LUNAR SCIENCE SRT	102,152
385	DATA ANALYSIS	255,555
630	APPLICATIONS TECHNOLOGY SATELLITES	786,849
815	VIKING	3,000
831	ORBITING ASTRONOMICAL OBSERVATORIES	145,018
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,493,169
848	RETURNED LUNAR SAMPLE ANALYSIS	397,000
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	1,229,049
861	INTERPLANETARY EXPLORERS /IMPA/	1,730,923

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV CALIF-BERKELEY	(CONTINUED)
---------------------	-------------

856	MANNED SATELLITE SCIENCE	500,000		
879	SOUNDING ROCKETS	554,626		
881	INFRARED SPECTROSCOPY	336,318		
883	BIOSATELLITES	9,602,640		
904	APOLLO SUPPORTING DEVELOPMENT	55,561		
905	APOLLO APPLICATIONS SUPPORTING DEV	64,861		
914	APOLLO SPACECRAFT	3,481,430		
933	SATURN V VEHICLE	144,000		
942	APOLLO APPLICATIONS DESIGN & DEV	175,000		
945	MSF EXPERIMENT DEFINITION	1,645,861		
948	AAP EXPERIMENT DEVELOPMENT	99,250		
949	APOLLO APPLICATIONS EXPERIMENT DEF	50,000		
961	SPACECRAFT MODIFICATIONS	50,000		
964	SATURN WORKSHOP	74,569		
975	SPACE STATION	2,247,105		
981	ADVANCED STUDIES-MANNED SPACE FLGT	111,756		
	INSTITUTION TOTALS		52,469,604	45,562,952

UNIV CALIF-DAVIS

125	ELECTRONICS SYSTEMS SRT	28,881		
126	AERONAUTICAL VEHICLES ART	24,720		
127	HUMAN FACTOR SYSTEMS SRT	344,908		
129	RESEARCH PROGRAM SRT	28,500		
188	PHYSICS AND ASTRONOMY SRT	27,802		
189	BIOSCIENCE SRT	744,832		
195	LUNAR SCIENCE SRT	6,733		
708	SMALL BIOTECHNOLOGY FLIGHTS	798,906		
914	APOLLO SPACECRAFT	48,500		
945	MSF EXPERIMENT DEFINITION	86,590		
949	APOLLO APPLICATIONS EXPERIMENT DEF	33,378		
	INSTITUTION TOTALS		2,173,750	1,603,155

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV CALIF-L ANGELES

000	MISCELLANFOUS RESEARCH	110,000
124	SPACE VEHICLE SYSTEMS SRT	351,400
125	ELECTRONICS SYSTEMS SRT	459,762
126	AERONAUTICAL VEHICLES APT	35,464
127	HUMAN FACTOR SYSTEMS SRT	753,710
143	ECONOMIC STUDIES	119,013
160	EARTH OBSERVATIONS SR&T	834,959
164	COMMUNICATIONS SP&T	40,000
181	TRAINING GRANTS	1,635,592
182	FACILITIES GRANTS	2,000,000
183	RESEARCH GRANTS	3,485,999
185	PLANETARY EXPLORATION SRT SCIENCE	1,292,574
186	PLANETARY EXPLORATION SRT AD TEC DV	24,800
188	PHYSICS AND ASTRONOMY SRT	1,549,055
189	BIOSCIENCE SRT	1,628,837
190	MANNED SPACE SCIENCES SRT	193,000
195	LUNAR SCIENCE SRT	78,000
383	DATA ANALYSIS-LUNAR	42,668
385	DATA ANALYSIS	303,270
610	COPP APPLICATIONS SATELLITE	100,202
630	APPLICATIONS TECHNOLOGY SATELLITES	915,704
683	EARTH OBSERVATIONS ADVANCED STUDIES	20,025
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	113,474
808	MARINER-MARS 1964	109,962
814	LUNAR ORBITER	31,287
817	MARINER-VENUS 1967	199,810
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,991,550
848	RETURNED LUNAR SAMPLE ANALYSIS	27,600
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	447,662

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV CALIF-L ANGELES (CONTINUED)

855	GEODETIC SATELLITES	51,295		
866	MANNED SATELLITE SCIENCE	132,000		
883	BIOSATELLITES	117,601		
903	GEMINI SUPPORTING DEVELOPMENT	99,618		
905	APOLLO APPLICATIONS SUPPORTING DEV	32,230		
911	MERCURY	149,202		
914	APOLLO SPACECRAFT	647,591		
923	GEMINI SUPPORT	100,577		
945	MSF EXPERIMENT DEFINITION	778,164		
949	APOLLO APPLICATIONS EXPERIMENT DEF	48,499		
975	SPACE STATION	55,140		
991	PAYOUT INTEGRATION INSTITUTION TOTALS	22,000	21,129,296	17,538,396

UNIV CALIF-RIVERSIDE

160	EARTH OBSERVATIONS SRT	20,000		
181	TRAINING GRANTS	228,100		
188	PHYSICS AND ASTRONOMY SRT	121,350		
	INSTITUTION TOTALS		369,450	349,074

UNIV CALIF-S BARBARA

124	SPACE VEHICLE SYSTEMS SRT	11,327		
125	ELECTRONICS SYSTEMS SRT	14,859		
126	AERONAUTICAL VEHICLES ART	30,368		
127	HUMAN FACTOR SYSTEMS SRT	81,945		
129	RESEARCH PROGRAM SRT	56,434		
181	TRAINING GRANTS	218,966		
185	PLANETARY EXPLORATION SRT SCIENCE	89,343		
188	PHYSICS AND ASTRONOMY SRT	346,512		
189	BIOSCIENCE SRT	70,000		
195	LUNAR SCIENCE SRT	59,986		
383	DATA ANALYSIS-LUNAR	25,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	UNIV CALIF-S BARBARA	(CONTINUED)		
914	APOLLO SPACECRAFT	26,575	1,031,315	828,954
	INSTITUTION TOTALS			
125	ELECTRONICS SYSTEMS SRT	50,000		
129	RESEARCH PROGRAM SRT	44,274		
188	PHYSICS AND ASTRONOMY SRT	219,814		
945	MSF EXPERIMENT DEFINITION	96,448		
	INSTITUTION TOTALS		410,536	258,255
	UNIV CALIF-S CRUZ			
103	LAUNCH VEHICLE TECHN	232,732		
120	POWER & ELECTRIC	314,117		
	PROPELLION, SRT			
124	SPACE VEHICLE SYSTEMS SRT	57,791		
125	ELFECTRONICS SYSTEMS SRT	193,169		
127	HUMAN FACTOR SYSTEMS SRT	830,274		
129	RESEARCH PROGRAM SRT	151,237		
160	EARTH OBSERVATIONS SR&T	90,000		
181	TRAINING GRANTS	546,700		
183	RESEARCH GRANTS	80,000		
185	PLANETARY EXPLORATION	1,607,118		
	SRT SCIENCE			
188	PHYSICS AND ASTRONOMY SRT	2,855,394		
199	BIOSCIENCE SRT	412,747		
194	ADV PLAN MISSIONS TECH	30,000		
	APMT			
195	LUNAR SCIENCE SRT	339,541		
196	PLANETARY ASTRONOMY	60,762		
383	DATA ANALYSIS-LUNAR	100,000		
385	DATA ANALYSIS	328,274		
626	RFLAY	116,500		
630	APPLICATIONS TECHNOLOGY	1,800,400		
	SATELLITES			
811	PIONEER INTERN QUIET SUN	280,000		
	YR			

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV CALIF-SAN DIEGO (CONTINUED)

815	VIKING	689		
821	ORBITING SOLAR OBSERVATORIES	2,962,783		
831	ORBITING ASTRONOMICAL OBSERVATORIES	177,923		
848	RETURNED LUNAR SAMPLE ANALYSIS	194,160		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	495,202		
851	ENERGETIC PARTICLES EXPLORERS	497,625		
879	SOUNDING ROCKETS	239,958		
914	APOLLO SPACECRAFT	525,035		
923	GEMINI SUPPORT	222,000		
924	APOLLO SPACE OPERATIONS	10,000		
940	ENGINE DEVELOPMENT	20,000		
945	MSF EXPERIMENT DEFINITION INSTITUTION TOTALS	164,714	15,936,845	13,160,464

UNIV CALIF-SAN FRAN

127	HUMAN FACTOR SYSTEMS SRT	330,807		
708	SMALL BIOTECHNOLOGY FLIGHTS	31,249		
914	APOLLO SPACECRAFT INSTITUTION TOTALS	70,000	432,056	334,191

UNIV ILLINOIS-CHICGO

129	RESEARCH PROGRAM SRT	123,890		
180	BIOSCIENCE SRT	276,000		
720	SUPersonic AIRCRAFT TECHNOLOGY INSTITUTION TOTALS	21,957	421,847	378,337

UNIV ILLINOIS-URBANA

120	POWER & ELECTRIC PROPELLION, SRT	135,415		
-----	-------------------------------------	---------	--	--

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS---		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV ILLINOIS-URBANA

(CONTINUED)

123	CHEMICAL AND SOLAR POWER SRT	118,816		
124	SPACE VEHICLE SYSTEMS SRT	206,583		
125	ELECTRONICS SYSTEMS SRT	245,832		
126	AERONAUTICAL VEHICLES ART	33,737		
127	HUMAN FACTOR SYSTEMS SRT	1,369,988		
129	RESEARCH PROGRAM SRT	363,346		
150	TRACKING & DATA ACQUISITION SRT	11,806		
164	COMMUNICATIONS SR&T	147,000		
181	TRAINING GRANTS	1,267,300		
182	FACILITIES GRANTS	1,125,000		
185	PLANETARY EXPLORATION SRT SCIENCE	306,335		
188	PHYSICS AND ASTRONOMY SRT	1,132,990		
189	BIOSCIENCE SRT	315,988		
385	DATA ANALYSIS	257,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	194,031		
737	SUBSONIC AIRCRAFT TECHNOLOGY	20,319		
873	BEACON EXPLORERS	399,325		
879	OUNDING ROCKETS	1,829,895		
908	ADVANCED SYSTEMS DEVELOPMENT	26,228		
933	SATURN V VEHICLE	29,304		
	INSTITUTION TOTALS		9,536,238	8,718,435

UNIV MARYLAND-BALT

185	PLANETARY EXPLORATION SRT SCIENCE	766,201		
188	PHYSICS AND ASTRONOMY SRT	23,500		
189	BIOSCIENCE SRT	266,489		
190	MANNED SPACE SCIENCES SRT	40,046		
	INSTITUTION TOTALS		1,096,236	1,041,534

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	UNIV MISS-MEDL CNTR			
127	HUMAN FACTOR SYSTEMS SRT	86,158		
	INSTITUTION TOTALS		86,158	61,234
	UNIV MO-COLUMBIA			
125	ELECTRONICS SYSTEMS SRT	80,684		
127	HUMAN FACTOR SYSTEMS SRT	34,000		
143	ECONOMIC STUDIES	175,926		
181	TRAINING GRANTS	866,400		
183	RFSEARCH GRANTS	650,000		
189	BIOSCIENCE SRT	479,844		
311	NETWORK OPERATIONS-T&D ACQUISITION	22,130		
855	GEODETIC SATELLITES	45,000		
914	APOLLO SPACECRAFT	94,665		
	INSTITUTION TOTALS		2,448,649	2,263,659
	UNIV MO-KANSAS CITY			
000	MISCELLANEOUS RESEARCH	255,509		
124	SPACE VEHICLE SYSTEMS SRT	42,870		
127	HUMAN FACTOR SYSTEMS SRT	155,783		
160	EARTH OBSFRVATIONS SR&T	24,700		
189	BIOSCIENCE SRT	67,200		
	INSTITUTION TOTALS		546,062	451,180
	UNIV MO-ROLLA			
124	SPACE VEHICLE SYSTEMS SRT	105,659		
129	RESRCH PROGRAM SRT	39,119		
181	TRAINING GRANTS	473,700		
189	BIOSCIENCE SRT	8,881		
	INSTITUTION TOTALS		627,359	578,974
	UNIV MO-ST LOUIS			
129	RESEARCH PROGRAM SRT	9,917		
	INSTITUTION TOTALS		9,917	9,917

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS---		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV N CAR-CHPL HILL

000	MISCELLANEOUS RESEARCH	167,734		
103	LAUNCH VEHICLE TECHN	32,359		
125	ELECTRONICS SYSTEMS SRT	102,986		
181	TRAINING GRANTS	880,600		
183	RESEARCH GRANTS	523,000		
188	PHYSICS AND ASTRONOMY SRT	98,589		
189	BIOSCIENCE SRT	68,503		
311	NETWORK OPERATIONS-T&D ACQUISITION	3,000		
879	SOUNDING ROCKETS	36,851		
923	GFMINI SUPPORT	6,129		
931	SATURN I VEHICLE	10,000		
	INSTITUTION TOTALS		1,929,751	1,261,958

UNIV NEBRASKA-LINCLN

181	TRAINING GRANTS	382,800		
914	APOLLO SPACECRAFT	20,000		
	INSTITUTION TOTALS		402,800	346,835

UNIV NEW HAMPSHIRE

000	MISCELLANEOUS RESEARCH	89,558		
120	POWER & ELECTRIC PROPULSION, SRT	15,500		
125	ELECTRONICS SYSTEMS SRT	82,807		
160	EARTH OBSERVATIONS SR&T	49,974		
181	TPAINING GRANTS	353,000		
188	PHYSICS AND ASTRONOMY SRT	1,587,215		
385	DATA ANALYSIS	58,463		
630	APPLICATIONS TECHNOLOGY SATELLITES	287,100		
811	PIONEER INTERN QUIET SUN YR	123,000		
821	ORBITING SOLAR OBSERVATORIES	1,636,591		
841	ORBITING GEOPHYSICAL OBSERVATORIES	907,200		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV NEW HAMPSHIRE (CONTINUED)

851	ENERGETIC PARTICLES EXPLORERS	229,110		
852	ATMOSPHERE EXPLORERS	25		
857	SMALL SCIENTIFIC SATELLITES /SSS/	125,000		
879	SOUNDING ROCKETS	708,836		
	INSTITUTION TOTALS		6,253,379	5,394,510

UNIV OF AKRON

126	AERONAUTICAL VEHICLES ART	4,000		
	INSTITUTION TOTALS		4,000	3,142

UNIV OF ALASKA

125	ELECTRONICS SYSTEMS SRT	169,395		
150	TRACKING & DATA ACQUISITION SRT	79,134		
181	TRAINING GRANTS	199,600		
185	PLANETARY EXPLORATION SRT SCIENCE	25,000		
188	PHYSICS AND ASTRONOMY SRT	942,412		
189	BIOSCIENCE SRT	227,950		
190	MANNED SPACE SCIENCES SRT	89,312		
311	NETWORK OPERATIONS-T&D ACQUISITION	3,166,640		
385	DATA ANALYSIS	110,542		
5101	SPACE PROJECTS CENTER	115,000		
604	NIMBUS	48,000		
607	METEOROLOGICAL SOUNDINGS	3,718		
841	ORBITING GEOPHYSICAL OBSERVATORIES	24,750		
851	ENERGETIC PARTICLES EXPLORERS	44,442		
861	INTERPLANETARY EXPLORERS /IMP/	30,750		
874	GERMAN RESEARCH SATELLITE	43,000		
879	SOUNDING ROCKETS	512,062		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	---INSTITUTION TOTALS-- OBLIGATIONS OBLIGATIONS DISBURSMNTS
------------	-------------------------------------	--

UNIV OF ALASKA (CONTINUED)

9101	EQUIPMENT AND INSTRUMENTATION	195,000
9106	DATA ACQUISITION FACILITY	1,534,208
914	APOLLO SPACECRAFT	391,559
	INSTITUTION TOTALS	7,952,474 7,661,847

UNIV OF ARIZONA

000	MISCELLANEOUS RESEARCH	56,120
120	POWER & ELECTRIC PROPELLION, SRT	134,068
122	NUCLEAR ROCKETS PROPELLION SRT	400,738
124	SPACE VEHICLE SYSTEMS SRT	42,798
125	ELECTRONICS SYSTEMS SRT	348,051
129	RESEARCH PROGRAM SRT	90,432
160	EARTH OBSERVATIONS SR&T	180,110
169	EARTH RESOURCES - SRT	73,200
181	TRAINING GRANTS	906,300
182	FACILITIES GRANTS	1,167,977
183	RESEARCH GRANTS	600,000
185	PLANETARY EXPLORATION SRT SCIENCE	3,040,109
188	PHYSICS AND ASTRONOMY SRT	2,613,273
189	BIOSCIENCE SRT	200,498
190	MANNED SPACE SCIENCES SRT	88,563
195	LUNAR SCIENCE SRT	165,000
196	PLANETARY ASTRONOMY	201,110
383	DATA ANALYSIS-LUNAR	109,773
385	DATA ANALYSIS	10,000
684	ADVANCED STUDIES-LUNAR & PLANETARY	9,700
701	SNAP-8 DEVELOPMENT PROJECT	10,000
720	SUPERSONIC AIRCRAFT TECHNOLOGY	26,801
797	COMMON USE SVC CARRIER ACCOUNT-OART	36,142

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF ARIZONA (CONTINUED)

811	PIONEER INTERN QUIET SUN YR	75,000		
831	ORBITING ASTRONOMICAL OBSERVATORIES	1,251,347		
904	APOLLO SUPPORTING DEVELOPMENT	79,000		
911	MERCURY	32,023		
914	APOLLO SPACECRAFT	230,100		
933	SATURN V VEHICLE	95,000		
942	APOLLO APPLICATIONS DESIGN & DEV	74,461		
945	MSF EXPERIMENT DEFINITION	124,660		
981	ADVANCED STUDIES-MANNED SPACE FLGT	70,656		
	INSTITUTION TOTALS		12,543,010	10,138,570

UNIV OF BRIDGEPORT

000	MISCELLANEOUS RESEARCH	5,185		
	INSTITUTION TOTALS		5,185	5,184

UNIV OF CHICAGO

129	RESEARCH PROGRAM SRT	652,000		
143	ECONOMIC STUDIES	92,000		
160	EARTH OBSERVATIONS SR&T	303,372		
181	TRAINING GRANTS	1,623,600		
182	FACILITIES GRANTS	1,749,039		
185	PLANETARY EXPLORATION SRT SCIENCE	1,531,324		
188	PHYSICS AND ASTRONOMY SRT	5,821,902		
189	BIOSCIENCE SRT	1,969,157		
195	LUNAR SCIENCE SRT	74,000		
383	DATA ANALYSIS-LUNAR	131,202		
385	DATA ANALYSIS	610,281		
808	MARINER-MARS 1964	140,509		
811	PIONEER INTERN QUIET SUN YR	1,322,160		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF CHICAGO (CONTINUED)

841	ORBITING GEOPHYSICAL OBSERVATORIES	3,878,555		
848	RETURNED LUNAR SAMPLE ANALYSIS	53,573		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	8,500		
861	INTERPLANETARY EXPLORERS /IMP/	2,915,904		
914	APOLLO SPACECRAFT	666,594		
945	MSF EXPERIMENT DEFINITION INSTITUTION TOTALS	99,398	23,643,070	20,532,290

UNIV OF CINCINNATI

120	POWER & ELECTRIC PROPULSION, SRT	271,588		
124	SPACE VEHICLE SYSTEMS SRT	190,223		
125	ELECTRONICS SYSTEMS SRT	428,810		
126	AERONAUTICAL VEHICLES ART	23,071		
127	HUMAN FACTOR SYSTEMS SRT	44,034		
181	TRAINING GRANTS	623,800		
183	RESFARCH GRANTS	700,000		
188	PHYSICS AND ASTRONOMY SRT	178,000		
607	METEOROLOGICAL SOUNDINGS INSTITUTION TOTALS	16,119	2,475,645	2,078,453

UNIV OF COLORADO

000	MISCELLANEOUS RESEARCH	29,374		
125	ELECTRONICS SYSTEMS SRT	96,427		
126	AERONAUTICAL VEHICLES ART	59,380		
129	RESEARCH PROGRAM SRT	94,223		
143	ECONOMIC STUDIES	117,562		
160	FARTH OBSERVATIONS SR&T	25,000		
181	TRAINING GRANTS	949,400		
182	FACTLITIES GRANTS	792,000		
185	PLANETARY EXPLORATION SRT SCIENCE	1,370,028		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF COLORADO (CONTINUED)

188	PHYSICS AND ASTRONOMY SRT	1,002,313		
189	BIOSCIENCE SRT	102,504		
194	ADV PLAN MISSIONS TECH APMT	238,705		
384	DATA ANALYSIS-PLANETARY	75,000		
385	DATA ANALYSIS	33,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	41,648		
815	VIKING	9,484		
817	MARINER-VENUS 1967	27,972		
821	ORBITING SOLAR OBSEPVATORIES	939,755		
841	ORBITING GEOPHYSICAL OBSEPVATORIES	1,477,900		
879	OUNDING ROCKETS	1,026,524		
	INSTITUTION TOTALS		8,508,199	6,593,384

UNIV OF CONNECTICUT

120	POWER & ELECTRIC PROPELLION, SRT	191,527		
125	ELECTRONICS SYSTEMS SRT	279,890		
141	IDENTIFICATION AND DISSEMINATION	928,108		
164	COMMUNICATIONS SR&T	33,318		
181	TRAINING GRANTS	629,600		
914	APOLLO SPACECRAFT	73,000		
	INSTITUTION TOTALS		2,135,443	1,836,229

UNIV OF DELAWARE

000	MISCELLANEOUS RESEARCH	11,660		
123	CHEMICAL AND SOLAR POWER SRT	53,964		
129	RESEARCH PROGRAM SRT	130,102		
181	TRAINING GRANTS	584,400		
	INSTITUTION TOTALS		780,126	706,177

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF DENVER

123	CHEMICAL AND SOLAR POWER SRT	116,954		
124	SPACE VEHICLE SYSTEMS SRT	64,983		
125	ELECTRONICS SYSTEMS SRT	168,761		
126	AERONAUTICAL VEHICLES ART	24,750		
127	HUMAN FACTOR SYSTEMS SRT	29,402		
128	CHEMICAL PROPULSION SRT	218,601		
129	RESEARCH PROGRAM SRT	232,688		
141	IDENTIFICATION AND DISSIMINATION	1,058,967		
181	TRAINING GRANTS	461,222		
182	FACILITIES GRANTS	900,000		
183	RESEARCH GRANTS	1,293,251		
198	PHYSICS AND ASTRONOMY SRT	4,000		
311	NETWORK OPERATIONS-T&D ACQUISITION	16,000		
385	DATA ANALYSIS	105,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	25,510		
855	GEODETIC SATELLITES	45,000		
861	INTERPLANETARY EXPLORERS /IMP/	26,600		
890	SCOUT DEVELOPMENT	240		
904	APOLLO SUPPORTING DEVELOPMENT	10,946		
933	SATURN V VEHICLE	29,455		
	INSTITUTION TOTALS		4,832,330	3,881,390

UNIV OF DETROIT

189	BIOSCIENCE SRT	146,760		
	INSTITUTION TOTALS		146,760	131,760

UNIV OF FLORIDA

600	MISCELLANEOUS RESEARCH	40,000		
103	LAUNCH VEHICLE TECHN	55,716		
105	LAUNCH OPERATION TECH	38,175		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF FLORIDA

(CONTINUED)

120	POWER & ELECTRIC PROPULSION, SRT	105,195		
122	NUCLEAR ROCKETS PROPULSION SRT	30,262		
123	CHEMICAL AND SOLAR POWER SRT	92,016		
124	SPACE VEHICLE SYSTEMS SRT	106,563		
127	HUMAN FACTOR SYSTEMS SRT	98,298		
128	CHEMICAL PROPULSION SRT	102,499		
129	RESEARCH PROGRAM SRT	698,010		
181	TRAINING GRANTS	885,300		
182	FACILITIES GRANTS	1,190,000		
183	RESEARCH GRANTS	1,800,000		
185	PLANETARY EXPLORATION SRT SCIENCE	237,200		
188	PHYSICS AND ASTRONOMY SRT	386,972		
189	BIOSCIENCE SRT	54,612		
721	V/STOL AIRCRAFT TECHNOLOGY	14,107		
731	CHEMICAL ROCKET EXPER ENGINEERING	72,679		
831	ORBITING ASTRONOMICAL OBSERVATORIES	3,228		
904	APOLLO SUPPORTING DEVELOPMENT	330,235		
908	ADVANCED SYSTEMS DEVELOPMENT	25,000		
933	SATURN V VEHICLE INSTITUTION TOTALS	62,055	6,428,122	5,790,641

UNIV OF GEORGIA

124	SPACE VEHICLE SYSTEMS SRT	39,451
129	RESEARCH PROGRAM SRT	25,000
141	IDENTIFICATION AND DISSEMINATION	528,074
181	TRAINING GRANTS	652,800
188	PHYSICS AND ASTRONOMY SRT	40,000

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	UNIV OF GEORGIA	(CONTINUED)		
189	BIOSCIENCE SRT	69,900		
818	VOYAGER	29,984		
933	SATURN V VEHICLE	108,847		
	INSTITUTION TOTALS		1,494,056	1,332,072
	UNIV OF HAWAII			
125	ELECTRONICS SYSTEMS SRT	86,944		
127	HUMAN FACTOR SYSTEMS SRT	216,569		
160	EARTH OBSERVATIONS SR&T	71,788		
181	TRAINING GRANTS	229,800		
185	PLANETARY EXPLORATION SRT SCIENCE	4,058,164		
188	PHYSICS AND ASTRONOMY SRT	3,172,043		
189	BIOSCIENCE SRT	243,408		
196	PLANETARY ASTRONOMY	251,183		
855	GEODETIC SATELLITES	112,704		
879	SOUNDING ROCKETS	858,307		
914	APOLLO SPACECRAFT	2,000		
945	MSF EXPERIMENT DEFINITION	24,847		
975	SPACE STATION	52,742		
	INSTITUTION TOTALS		9,380,499	7,858,395
	UNIV OF HOUSTON			
000	MISCELLANEOUS RESEARCH	2,878		
127	HUMAN FACTOR SYSTEMS SRT	176,800		
129	RESEARCH PROGRAM SRT	20,196		
181	TRAINING GRANTS	1,867,377		
183	RESEARCH GRANTS	525,000		
185	PLANETARY EXPLORATION SRT SCIENCE	139,617		
188	PHYSICS AND ASTRONOMY SRT	12,375		
189	BIOSCIENCE SRT	623,833		
815	VIKING	48,910		
848	RETURNED LUNAR SAMPLE ANALYSIS	10,000		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	99,600		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	UNIV OF HOUSTON	(CONTINUED)		

879	SOUNDING ROCKETS	50,000		
904	APOLLO SUPPORTING DEVELOPMENT	161,578		
908	ADVANCED SYSTEMS DEVELOPMENT	59,074		
912	MANNED ONE-DAY MISSION	33,454		
913	GEMINI SPACECRAFT	138,472		
914	APOLLO SPACECRAFT	1,342,440		
921	MISSION CONTROL SYSTEMS	130,499		
923	GEMINI SUPPORT	31,274		
942	APOLLO APPLICATIONS DESIGN & DEV	80,000		
948	AAP EXPERIMENT DEVELOPMENT	27,159		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	303,148		
	INSTITUTION TOTALS		5,883,684	4,348,085
UNIV OF IDAHO				

181	TRAINING GRANTS	177,900		
914	APOLLO SPACECRAFT	24,328		
	INSTITUTION TOTALS		202,228	176,786
UNIV OF IOWA				

125	ELECTRONICS SYSTEMS SRT	14,743		
129	RESEARCH PROGRAM SRT	44,168		
181	TRAINING GRANTS	1,243,300		
182	FACILITIES GRANTS	536,180		
188	PHYSICS AND ASTRONOMY SRT	3,067,507		
189	BIOSCIENCE SRT	62,659		
196	PLANETARY ASTRONOMY	9,215		
311	NETWORK OPERATIONS-T&D ACQUISITION	1,134,482		
385	DATA ANALYSIS	318,000		
626	RELAY	177,103		
811	PIONEER INTERN QUIET SUN YR	300,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF IOWA	(CONTINUED)
--------------	-------------

823	HELIOS	60,600		
841	ORBITING GEOPHYSICAL OBSERVATORIES	765,900		
851	ENERGETIC PARTICLES EXPLORERS	717,298		
857	SMALL SCIENTIFIC SATELLITES /SSS/ /IMP/	175,300		
861	INTERPLANETARY EXPLORERS	1,584,942		
863	AIR DFNSITY/INJUN EXPLORERS	4,593,773		
870	UNITED KINGDOM SATELLITES	225,000		
879	SOUNDING ROCKETS	296,197		
911	MERCURY	38,270		
	INSTITUTION TOTALS		15,364,637	13,384,374

UNIV OF KANSAS

125	ELECTRONICS SYSTEMS SRT	133,097		
126	AERONAUTICAL VEHICLES ART	95,905		
127	HUMAN FACTOR SYSTEMS SRT	20,000		
160	EARTH OBSERVATIONS SR&T	405,000		
169	EARTH RESOURCES - SRT	162,050		
181	TRAINING GRANTS	1,017,700		
182	FACILITIES GRANTS	1,800,000		
183	RESEARCH GRANTS	1,085,000		
185	PLANETARY EXPLORATION SRT SCIENCE	56,370		
189	BIOSCIENCE SRT	138,449		
630	APPLICATIONS TECHNOLOGY SATELLITES	77,984		
736	GEN AVIATION AIRCRAFT TECH SUP RES	57,080		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	10,000		
866	MANNED SATELLITE SCIENCE	507,217		
965	APOLLO TELESCOPE MOUNT	4,990		
981	ADVANCED STUDIES-MANNED SPACE FLGT	230,451		
	INSTITUTION TOTALS		5,801,293	4,677,893

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF KENTUCKY

103	LAUNCH VEHICLE TECHN	31,611		
124	SPACE VFHICLE SYSTEMS SRT	140,128		
125	ELECTRONICS SYSTEMS SRT	19,982		
129	RESEARCH PROGRAM SRT	149,247		
181	TRAINING GRANTS	537,600		
189	BIOSCIENCE SRT	1,310,737		
848	RETURNED LUNAR SAMPLE ANALYSIS	30,000		
849	APOLLO APPL EXPFRIMENT DEFIN /SSA/	150,000		
914	APOLLO SPACECRAFT	217,000		
931	SATURN I VEHICLE	20,000		
	INSTITUTION TOTALS		2,606,305	2,050,008

UNIV OF LOUISVILLE

127	HUMAN FACTOR SYSTEMS SRT	188,125		
181	TRAINING GRANTS	246,200		
183	RESEARCH GRANTS	322,542		
189	BIOSCIENCE SRT	30,115		
	INSTITUTION TOTALS		786,982	764,512

UNIV OF MAINE-ORONO

129	RESEARCH PROGRAM SRT	30,000		
181	TRAINING GRANTS	325,800		
183	RESEARCH GRANTS	406,250		
	INSTITUTION TOTALS		762,050	620,733

UNIV OF MARYLAND

000	MISCELLANEOUS RESEARCH	11,800		
120	POWER & ELECTRIC PROPULSION, SRT	181,951		
122	NUCLEAR ROCKETS PROPULSION SRT	130,408		
125	ELECTRONICS SYSTEMS SRT	604,347		
126	AERONAUTICAL VEHICLES ART	16,872		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF MARYLAND

(CONTINUED)

127	HUMAN FACTOR SYSTEMS SRT	880,744
129	RESEARCH PROGRAM SRT	359,104
141	IDENTIFICATION AND DISSEMINATION	406,169
150	TRACKING & DATA ACQUISITION SRT	67,353
160	EARTH OBSERVATIONS SR&T	38,500
181	TRAINING GRANTS	1,522,005
182	FACILITIES GRANTS	1,500,000
193	RESEARCH GRANTS	2,620,000
185	PLANETARY EXPLORATION SRT SCIENCE	406,000
188	PHYSICS AND ASTRONOMY SRT	3,135,972
189	BIOSCIENCE SRT	2,106,497
195	LUNAR SCIENCE SRT	365,650
384	DATA ANALYSIS-PLANETARY	26,000
385	DATA ANALYSIS	303,402
5113	LAUNCH PHASE SIMULATOR	23,658
737	SUBSONIC AIRCRAFT TECHNOLOGY	84,988
821	ORBITING SOLAR OBSERVATORIES	67,000
822	ADV ORBITING SOLAR OBSERVATORIES	42,301
841	ORBITING GEOPHYSICAL OBSERVATORIES	232,600
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	72,000
851	ENERGETIC PARTICLES EXPLORERS	58,438
852	ATMOSPHERE EXPLORERS	30,058
861	INTERPLANETARY EXPLORERS /IMP/	667,046
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	229,363
873	BEACON EXPLORERS	8,000
877	RADIO ASTRONOMY EXPLORERS	26,607
879	SOUNDING ROCKETS	648,393

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF MARYLAND (CONTINUED)

914	APOLLO SPACECRAFT	2,029,242		
923	GEMINI SUPPORT	30,000		
942	APOLLO APPLICATIONS DESIGN & DEV	100,000		
945	MSF EXPERIMENT DEFINITION	35,575		
981	ADVANCED STUDIES-MANNED SPACE FLGT	45,000		
	INSTITUTION TOTALS		19,113,043	16,074,498

UNIV OF MASSACHUSETT

125	ELECTRONICS SYSTEMS SRT	158,690		
129	RESEARCH PROGRAM SRT	32,657		
160	EARTH OBSERVATIONS SR&T	41,617		
181	TRAINING GRANTS	293,100		
185	PLANETARY EXPLORATION SRT SCIENCE	107,138		
188	PHYSICS AND ASTRONOMY SRT	504,007		
189	BIOSCIENCE SRT	81,440		
196	PLANETARY ASTRONOMY	37,729		
383	DATA ANALYSIS-LUNAR	16,229		
384	DATA ANALYSIS-PLANETARY	11,508		
	INSTITUTION TOTALS		1,284,115	984,904

UNIV OF MIAMI

000	MISCELLANEOUS RESEARCH	20,057		
122	NUCLEAR ROCKETS PROPULSION SRT	143,170		
125	ELECTRONICS SYSTEMS SRT	15,000		
129	RESEARCH PROGRAM SRT	73,700		
143	ECONOMIC STUDIES	81,432		
160	EARTH OBSERVATIONS SR&T	115,685		
180	LAUNCH VEHICLE DEVELOPMENT SRT	28,091		
181	TRAINING GRANTS	465,200		
183	RESEARCH GRANTS	1,621,387		
185	PLANETARY EXPLORATION SRT SCIENCE	199,260		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF MIAMI (CONTINUED)

188	PHYSICS AND ASTRONOMY SRT	62,257		
189	BIOSCIENCE SRT	1,213,695		
731	CHEMICAL ROCKET EXPER ENGINEERING	120,481		
848	RETURNED LUNAR SAMPLE ANALYSIS	50,000		
914	APOLLO SPACECRAFT	162,500		
	INSTITUTION TOTALS		4,371,915	3,851,497

UNIV OF MICHIGAN

000	MISCELLANEOUS RESEARCH	320,555		
103	LAUNCH VEHICLE TECHN	279,999		
120	POWER & ELECTRIC PROPELLION, SRT	147,129		
124	SPACE VEHICLE SYSTEMS SRT	427,614		
125	ELECTRONICS SYSTEMS SRT	1,748,724		
126	AERONAUTICAL VEHICLES ART	421,178		
127	HUMAN FACTOR SYSTEMS SRT	133,455		
128	CHEMICAL PROPULSION SRT	923,253		
129	RESEARCH PROGRAM SRT	1,204,221		
150	TRACKING & DATA ACQUISITION SRT	20,001		
160	EARTH OBSERVATIONS SR&T	4,980,532		
164	COMMUNICATIONS SR&T	128,960		
169	EARTH RESOURCES - SRT	97,500		
181	TRAINING GRANTS	1,409,900		
182	FACILITIES GRANTS	1,436,000		
183	RESEARCH GRANTS	26,627		
185	PLANETARY EXPLORATION SRT SCIENCE	970,431		
186	PLANETARY EXPLORATION SRT AD TEC DV	70,000		
188	PHYSICS AND ASTRONOMY SRT	1,507,829		
189	BIOSCIENCE SRT	255,406		
384	DATA ANALYSIS-PLANETARY	75,000		
385	DATA ANALYSIS	204,854		
601	TIROS/TOS IMPROVEMENTS	47,500		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	---INSTITUTION TOTALS-- OBLIGATIONS OBLIGATIONS DISBURSMNTS
	UNIV OF MICHIGAN	(CONTINUED)
604	NIMRUS	100,000
607	METEOROLOGICAL SOUNDINGS	2,848,671
610	COPP APPLICATIONS SATELLITE	275
630	APPLICATIONS TECHNOLOGY SATELLITES	68,768
640	EARTH RESOURCES SURVEY-AIRCRAFT	1,010,538
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	175,000
720	SUPERSONIC AIRCRAFT TECHNOLOGY	220,311
803	SURVEYOR	188,886
806	MARINER A	50,000
821	ORBITING SOLAR OBSEVATORIES	426,044
841	ORBITING GEOPHYSICAL OBSEVATORIES	6,186,768
849	APOLLO APPL EXPERIMENT DEFTN /SSA/	290,314
852	ATMOSPHERE EXPLORERS	153,356
861	INTERPLANETARY EXPLORERS /IMP/	140,000
866	MANNED SATELLITE SCIENCE	86,700
872	ISIS/INTEPNTL SAT-IONOSPHERE STUDY	63,150
873	BEACON EXPLORERS	20,000
874	GERMAN RESEARCH SATELLITE	155,000
877	RADIO ASTRONOMY EXPLORERS	100,000
879	SOUNDING ROCKETS	6,547,271
894	JOINT ITALIAN/UNITED STATES PROJECT	438,720
908	ADVANCED SYSTEMS DEVELOPMENT	169,159
911	MERCURY	29,456
931	SATURN I VEHICLE	139,669
932	SATURN 1B VEHICLE	239,902
933	SATURN V VEHICLE	920,568

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF MICHIGAN (CONTINUED)

945	MSF EXPERIMENT DEFINITION	49,000		
948	AAP EXPERIMENT DEVELOPMENT	160,954		
975	SPACE STATION	54,145		
981	ADVANCED STUDIES-MANNED SPACE FLGT	100,000		
	INSTITUTION TOTALS		37,969,293	34,410,915

UNIV OF MINNESOTA

000	MISCELLANEOUS RESEARCH	22,297		
120	POWER & ELECTRIC PROPULSION, SRT	299,038		
124	SPACE VEHICLE SYSTEMS SRT	71,794		
125	ELECTRONICS SYSTEMS SRT	20,315		
126	AERONAUTICAL VEHICLES ART	22,500		
127	HUMAN FACTOR SYSTEMS SRT	540,280		
128	CHEMICAL PROPULSION SRT	101,388		
129	RESEARCH PROGRAM SRT	163,104		
141	IDENTIFICATION AND DISSEMINATION	100,000		
160	EARTH OBSERVATIONS SR&T	3,000		
181	TRAINING GRANTS	1,512,700		
182	FACILITIES GRANTS	3,042,029		
183	RESEAPCH GRANTS	1,608,810		
185	PLANETARY EXPLORATION SRT SCIENCE	667,242		
186	PLANETARY EXPLORATION SRT AD TEC DV	53,507		
188	PHYSICS AND ASTRONOMY SRT	4,764,530		
189	BIOSCIENCE SRT	2,062,793		
190	MANNED SPACE SCIENCES SRT	164,175		
191	PLANETARY QUARANTINE	150,000		
385	DATA ANALYSIS	141,363		
601	TIROS/TOS IMPROVEMENTS	7,000		
607	METEOROLOGICAL SOUNDINGS	14,660		
630	APPLICATIONS TECHNOLOGY SATELLITES	704,420		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF MINNESOTA (CONTINUED)

720	SUPERSONIC AIRCRAFT TECHNOLOGY	215,777		
731	CHEMICAL ROCKET EXPER ENGINEERING	4,471		
811	PIONEER INTERN QUIET SUN YR	1,646,071		
815	VIKING	24,400		
821	ORBITING SOLAR OBSERVATORIES	680,335		
823	HELIOS	35,000		
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,270,100		
849	APOLLO APPL EXPERIMENT DEFTN /SSA/	65,684		
857	SMALL SCIENTIFIC SATELLITES /SSS/	161,000		
861	INTERPLANETARY EXPLORERS /IMP/	463,000		
866	MANNED SATELLITE SCIENCE	35,177		
879	SOUNDING ROCKETS	1,185,619		
883	BIOSATELLITS	1,613,223		
914	APOLLO SPACECRAFT	496,649		
923	GEMINI SUPPORT	40,480		
942	APOLLO APPLICATIONS DESIGN & DEV	95,416		
945	MSF EXPERIMENT DEFINITION	147,150		
949	APOLLO APPLICATIONS EXPERIMENT DEF	88,217		
975	SPACE STATION	47,000		
	INSTITUTION TOTALS		24,551,714	22,137,834

UNIV OF MISSISSIPPI

181	TRAINING GRANTS	262,800		
	INSTITUTION TOTALS		262,800	250,608

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
UNIV OF MONTANA				
181	TRAINING GRANTS	255,600	255,600	245,471
	INSTITUTION TOTALS			
UNTV OF NEVADA-RENO				
160	EARTH OBSERVATIONS SRT	133,865		
169	EARTH RESOURCES - SRT	108,650		
181	TRAINING GRANTS	244,600		
185	PLANETARY EXPLORATION SRT SCIENCE	90,000		
188	PHYSICS AND ASTRONOMY SRT	205,232		
189	BIOSCIENCE SRT	65,556		
190	MANNED SPACE SCIENCES SRT	131,188		
640	EARTH RESOURCES SURVEY-AIRCRAFT	94,320		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	78,470		
	INSTITUTION TOTALS		1,151,881	957,648
UNIV OF NEW MEXICO				
123	CHEMICAL AND SOLAR POWER SRT	80,349		
125	ELECTRONICS SYSTEMS SRT	52,785		
141	IDENTIFICATION AND DISSEMINATION	724,661		
181	TRAINING GRANTS	628,100		
183	RESEARCH GRANTS	450,000		
185	PLANETARY EXPLORATION SRT SCIENCE	412,768		
188	PHYSICS AND ASTRONOMY SRT	217,937		
195	LUNAR SCIENCE SRT	37,500		
383	DATA ANALYSIS-LUNAR	37,500		
384	DATA ANALYSIS-PLANETARY	5,260		
821	ORBITING SOLAR OBSERVATORIES	1,271,725		
841	ORBITING GEOPHYSICAL OBSERVATORIES	744,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	UNIV OF NEW MEXICO	(CONTINUED)		
914	APOLLO SPACECRAFT	88,490		
	INSTITUTION TOTALS		4,751,075	4,278,840
	UNIV OF NORTH DAKOTA			
124	SPACE VEHICLE SYSTEMS SRT	20,935		
181	TRAINING GRANTS	85,500		
311	NETWORK OPERATIONS-T&D	38,470		
	ACQUISITION			
	INSTITUTION TOTALS		144,905	113,647
	UNIV OF NOTRE DAME			
125	ELECTRONICS SYSTEMS SRT	125,234		
128	CHEMICAL PROPULSION SRT	80,193		
129	RESEARCH PROGRAM SRT	396,364		
150	TRACKING & DATA	5,000		
	ACQUISITION SRT			
181	TRAINING GRANTS	794,300		
189	BIOSCIENCE SRT	232,097		
385	DATA ANALYSIS	15,180		
861	INTERPLANETARY EXPLORERS /IMP/	2,300		
879	SOUNDING ROCKETS	59,858		
	INSTITUTION TOTALS		1,710,526	1,379,092
	UNIV OF OKLAHOMA			
124	SPACE VEHICLE SYSTEMS SRT	34,605		
125	ELECTRONICS SYSTEMS SRT	59,856		
126	AERONAUTICAL VEHICLES ART	64,165		
181	TRAINING GRANTS	861,600		
183	RESEARCH GRANTS	400,000		
188	PHYSICS AND ASTRONOMY SRT	22,000		
	INSTITUTION TOTALS		1,442,226	1,349,153

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBUR SMNTS

UNIV OF OREGON

125	ELECTRONICS SYSTEMS SRT	50,035		
127	HUMAN FACTOR SYSTEMS SRT	58,937		
185	PLANETARY EXPLORATION SRT SCIENCE	135,000		
195	LUNAR SCIENCE SRT	77,000		
383	DATA ANALYSIS-LUNAR	35,000		
914	APOLLO SPACECRAFT	524,714		
	INSTITUTION TOTALS		880,686	683,053

UNIV OF PENNSYLVANIA

120	POWER & ELECTRIC PROPULSION, SRT	201,600		
123	CHEMICAL AND SOLAR POWER SRT	1,687,021		
125	ELECTRONICS SYSTEMS SRT	207,226		
126	AERONAUTICAL VEHICLES ART	21,160		
127	HUMAN FACTOR SYSTEMS SRT	170,550		
129	RESEARCH PROGRAM SRT	32,067		
143	ECONOMIC STUDIES	300,000		
150	TRACKING & DATA ACQUISITION SRT	77,856		
160	EARTH OBSERVATIONS SR&T	84,531		
181	TRAINING GRANTS	1,153,200		
183	RESEARCH GRANTS	850,000		
188	PHYSICS AND ASTRONOMY SRT	101,091		
189	BIOSCIENCE SRT	369,491		
384	DATA ANALYSIS-PLANETARY	14,715		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	39,698		
883	BIOSATELLITES	318,730		
914	APOLLO SPACECRAFT	34,831		
	INSTITUTION TOTALS		5,663,767	5,055,316

UNIV OF PITTSBURGH

122	NUCLEAR ROCKETS PROPULSION SRT	63,038
-----	-----------------------------------	--------

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	UNIV OF PITTSBURGH	(CONTINUED)		

124	SPACE VEHICLE SYSTEMS SRT	18,829		
125	ELECTRONICS SYSTEMS SRT	84,852		
129	RESEARCH PROGRAM SRT	109,415		
141	IDENTIFICATION AND DISSEMINATION	1,229,003		
181	TRAINING GRANTS	1,362,700		
182	FACILITIES GRANTS	1,496,657		
183	RESEARCH GRANTS	2,048,000		
185	PLANETARY EXPLORATION SRT SCIENCE	887,410		
188	PHYSICS AND ASTRONOMY SRT	87,460		
189	BIOSCIENCE SRT	702,863		
195	LUNAR SCIENCE SRT	110,954		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	44,128		
841	ORBITING GEOPHYSICAL OBSERVATORIES	335,700		
879	SOUNDING ROCKETS	934,415		
914	APOLLO SPACECRAFT	56,000		
	INSTITUTION TOTALS		9,571,424	8,537,133

	UNIV OF PUERTO RICO			

311	NETWORK OPERATIONS-T&D ACQUISITION	14,500		
855	GEODETIC SATELLITES	45,000		
	INSTITUTION TOTALS		59,500	55,277

	UNIV OF REDLANDS			

000	MISCELLANEOUS RESEARCH	155,028		
	INSTITUTION TOTALS		155,028	155,029

	UNIV OF RHODE ISLAND			

181	TRAINING GRANTS	349,400		
	INSTITUTION TOTALS		349,400	323,125

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
UNIV OF RICHMOND				

126	AERONAUTICAL VEHICLES ART	10,280	10,280	0
	INSTITUTION TOTALS			
UNIV OF ROCHESTER				

124	SPACE VEHICLE SYSTEMS SRT	64,000		
125	ELECTRONICS SYSTEMS SRT	121,650		
126	AERONAUTICAL VEHICLES ART	2,488		
129	RFSEARCH PROGRAM SRT	301,404		
181	TRAINING GRANTS	935,200		
182	FACILITIES GRANTS	1,000,000		
188	PHYSICS AND ASTRONOMY SRT	1,035,530		
189	BIOSCIENCE SRT	882,781		
194	ADV PLAN MISSIONS TECH APMT	60,000		
815	VIKING	33,693		
821	ORBITING SOLAR OBSERVATORIES	808,100		
831	ORBITING ASTRONOMICAL OBSERVATORIES	196,993		
879	SOUNDING ROCKETS	82,201		
883	BIOSATELLITES	63,000		
	INSTITUTION TOTALS		5,587,040	5,307,455
UNIV OF SANTA CLARA				

120	POWER & ELECTRIC PROPULSION, SRT	8,464		
125	ELECTRONICS SYSTEMS SRT	139,764		
127	HUMAN FACTOR SYSTEMS SRT	15,000		
129	RESEARCH PROGRAM SRT	72,390		
	INSTITUTION TOTALS		235,618	207,833
UNIV OF SO CAROLINA				

125	ELECTRONICS SYSTEMS SRT	20,384		
181	TRAINING GRANTS	401,500		
185	PLANETARY EXPLORATION SRT SCIENCE	95,069		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	UNIV OF SO CAROLINA	(CONTINUED)		
189	BIOSCIENCE SRT	2,545	519,498	470,043
	INSTITUTION TOTALS			
	UNIV OF SO FLORIDA			
000	MISCELLANEOUS RESEARCH	47,764		
125	ELECTRONICS SYSTEMS SRT	58,883		
127	HUMAN FACTOR SYSTEMS SRT	8,053		
129	RESEARCH PROGRAM SRT	12,800		
160	EARTH OBSERVATIONS SR&T	85,455		
	INSTITUTION TOTALS	212,955	154,664	
	UNIV OF SOUTH DAKOTA			
181	TPAINING GRANTS	190,600	190,600	183,040
	INSTITUTION TOTALS			
	UNIV OF SOUTHERN CAL			
120	POWER & ELECTRIC PROPULSION, SRT	43,262		
124	SPACE VEHICLE SYSTEMS SRT	35,341		
125	ELECTRQNICS SYSTEMS SRT	559,477		
128	CHEMICAL PROPULSION SRT	37,924		
129	RESEARCH PROGRAM SRT	250,980		
141	IDENTIFICATION AND DISSEMINATION	1,257,432		
160	EARTH OBSERVATIONS SR&T	68,739		
181	TRAINING GRANTS	1,635,574		
182	FACILITIES GRANTS	160,000		
183	RESEARCH GRANTS	1,200,000		
185	PLANETARY EXPLORATION SRT SCIENCE	320,600		
188	PHYSICS AND ASTRONOMY SRT	159,988		
189	BIOSCIENCE SRT	684,626		
708	SMALL BIOTECHNOLOGY FLIGHTS	7,000		
811	PIONEER INTERN QUIET SUN YR	423,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--	
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	DISBURSMNTS

UNIV OF SOUTHERN CAL (CONTINUED)

866	MANNED SATELLITE SCIENCE	42,774	
879	SOUNDING ROCKETS	28,747	
883	BIOSATELLITES	1,300,000	
911	MERCURY	40,403	
914	APOLLO SPACECRAFT	40,224	
923	GEMINI SUPPORT	72,222	
945	MSF EXPERIMENT DEFINITION	193,000	
975	SPACE STATION	99,615	
981	ADVANCED STUDIES-MANNED SPACE FLGT	2,583	
	INSTITUTION TOTALS	8,663,511	6,835,071

UNIV OF ST THOMAS

124	SPACE VEHICLE SYSTEMS SRT	29,854	
883	BIOSATELLITES	171,172	
904	APOLLO SUPPORTING DEVELOPMENT	58,563	
	INSTITUTION TOTALS	259,589	259,227

UNIV OF TENNESSEE

120	POWER & ELECTRIC PROPELLION, SRT	114,000	
124	SPACE VEHICLE SYSTEMS SRT	35,460	
125	ELECTRONICS SYSTEMS SRT	340,247	
126	AERONAUTICAL VEHICLES ART	89,780	
129	RESEARCH PROGRAM SRT	487,863	
181	TRAINING GRANTS	840,400	
183	RESEARCH GRANTS	1,150,000	
185	PLANETARY EXPLORATION SRT SCIENCE	611,485	
188	PHYSICS AND ASTRONOMY SRT	157,426	
721	V/STOL AIRCRAFT TECHNOLOGY	69,000	
908	ADVANCED SYSTEMS DEVELOPMENT	49,561	
933	SATURN V VEHICLE	124,398	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	UNIV OF TENNESSEE	(CONTINUED)		
964	SATURN WORKSHOP	28,773	4,098,393	3,292,519
	INSTITUTION TOTALS			
181	TRAINING GRANTS	252,400		
188	PHYSICS AND ASTRONOMY SRT	10,801		
914	APOLLO SPACECRAFT	9,453		
	INSTITUTION TOTALS		272,654	219,399
	UNIV OF TOLEDO			
120	MISCELLANEOUS RESEARCH	11,950		
120	POWER & ELECTRIC	24,546		
	PROPELLION, SRT			
124	SPACE VEHICLE SYSTEMS SRT	32,058		
128	CHEMICAL PROPELLION SRT	522,492		
129	RESEARCH PROGRAM SRT	110,435		
181	TRAINING GRANTS	727,000		
189	BIOSCIENCE SRT	14,041		
320	SPECIAL SUPPORT	54,607		
607	METEOROLOGICAL SOUNDINGS	453,819		
684	ADVANCED STUDIES-LUNAR &	14,000		
	PLANETARY			
923	GEMINI SUPPORT	20,013		
933	SATURN V VEHICLE	15,980		
	INSTITUTION TOTALS		2,000,941	1,679,429
	UNIV OF UTAH			
000	MISCELLANEOUS RESEARCH	11,950		
120	POWER & ELECTRIC	24,546		
	PROPELLION, SRT			
124	SPACE VEHICLE SYSTEMS SRT	32,058		
128	CHEMICAL PROPELLION SRT	522,492		
129	RESEARCH PROGRAM SRT	110,435		
181	TRAINING GRANTS	727,000		
189	BIOSCIENCE SRT	14,041		
320	SPECIAL SUPPORT	54,607		
607	METEOROLOGICAL SOUNDINGS	453,819		
684	ADVANCED STUDIES-LUNAR &	14,000		
	PLANETARY			
923	GEMINI SUPPORT	20,013		
933	SATURN V VEHICLE	15,980		
	INSTITUTION TOTALS		2,000,941	1,679,429
	UNIV OF VERMONT			
000	MISCELLANEOUS RESEARCH	9,876		
127	HUMAN FACTOR SYSTEMS SRT	46,038		
129	RESEARCH PROGRAM SRT	40,670		
160	EARTH OBSERVATIONS SR&T	19,182		
181	TRAINING GRANTS	360,300		
183	RESEARCH GRANTS	750,000		
	INSTITUTION TOTALS		1,226,066	1,023,517

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF VIRGINIA

000	MISCELLANEOUS RESEARCH	29,999		
120	POWER & ELECTRIC PROPULSION, SRT	110,687		
123	CHEMICAL AND SOLAR POWER SRT	20,000		
124	SPACE VEHICLE SYSTEMS SRT	85,912		
125	ELECTRONICS SYSTEMS SRT	582,320		
126	AERONAUTICAL VEHICLES ART	632,444		
127	HUMAN FACTOR SYSTEMS SRT	80,000		
128	CHEMICAL PROPULSION SRT	47,000		
129	RESEARCH PROGRAM SRT	1,327,539		
181	TRAINING GRANTS	848,100		
183	RESEARCH GRANTS	725,000		
185	PLANETARY EXPLORATION SRT SCIENCE	299,031		
188	PHYSICS AND ASTRONOMY SRT	106,218		
189	BIOSCIENCE SRT	342,520		
190	MANNED SPACE SCIENCES SRT	13,681		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	51,367		
721	V/STOL AIRCRAFT TECHNOLOGY	57,161		
729	HYPersonic RESEARCH ENGINE	28,800		
731	CHEMICAL ROCKET EXPER ENGINEERING	30,000		
883	BIOSATELLITES	353,608		
914	APOLLO SPACECRAFT	30,622		
981	ADVANCED STUDIES-MANNED SPACE FLGT	4,819		
	INSTITUTION TOTALS	5,806,828		4,834,549

UNIV OF WASHINGTON

124	SPACE VEHICLE SYSTEMS SRT	279,474
125	ELECTRONICS SYSTEMS SRT	30,000
126	AERONAUTICAL VEHICLES ART	54,375
127	HUMAN FACTOR SYSTEMS SRT	81,455

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV OF WASHINGTON (CONTINUED)

129	RESEARCH PROGRAM SRT	2,480,750		
160	EARTH OBSERVATIONS SR&T	57,600		
181	TRAINING GRANTS	804,500		
182	FACILITIES GRANTS	1,500,000		
183	RESEARCH GRANTS	348,000		
185	PLANETARY EXPLORATION SRT SCIENCE	81,900		
188	PHYSICS AND ASTRONOMY SRT	105,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	53,449		
721	V/STOL AIRCRAFT TECHNOLOGY	281,672		
815	VIKING	11,120		
883	BIOSATELLITES	26,932		
911	MERCURY	15,270		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	19,837		
	INSTITUTION TOTALS		6,231,334	5,047,930

UNIV OF WYOMING

125	ELECTRONICS SYSTEMS SRT	19,921		
126	AERONAUTICAL VEHICLES ART	131,672		
127	HUMAN FACTOR SYSTEMS SRT	182,129		
129	RESEARCH PROGRAM SRT	14,981		
181	TRAINING GRANTS	181,700		
188	PHYSICS AND ASTRONOMY SRT	269,000		
	INSTITUTION TOTALS		799,403	761,317

UNIV OKLA-MEDL CNTR

127	HUMAN FACTOR SYSTEMS SRT	54,660		
	INSTITUTION TOTALS		54,660	9,402

UNIV OREGON-MEDL SCH

127	HUMAN FACTOR SYSTEMS SRT	122,198		
708	SMALL BIOTECHNOLOGY FLIGHTS	10,050		
	INSTITUTION TOTALS		132,248	129,076

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV SAN FRANCISCO

127	HUMAN FACTOR SYSTEMS SRT	167,718		
129	RESEARCH PROGRAM SRT	36,777		
189	BIOSCIENCE SRT	9,946		
	INSTITUTION TOTALS		214,441	163,661

UNIV SO MISSISSIPPI

181	TRAINING GRANTS	100,600		
	INSTITUTION TOTALS		100,600	91,984

UNIV TEX-ANDRSN HOSP

904	APOLLO SUPPORTING DEVELOPMENT	190,000		
914	APOLLO SPACECRAFT	260,000		
	INSTITUTION TOTALS		450,000	247,059

UNIV TEX-BIOMED GRAD

708	SMALL BIOTECHNOLOGY FLIGHTS	95,970		
749	APOLLO APPL EXPERIMENT DEFIN./ART/	41,000		
904	APOLLO SUPPORTING DEVELOPMENT	191,100		
914	APOLLO SPACECRAFT	35,000		
975	SPACE STATION	35,000		
	INSTITUTION TOTALS		398,070	316,434

UNIV TEX-DENTAL BRCH

914	APOLLO SPACECRAFT	80,000		
961	SPACECRAFT MODIFICATIONS	35,000		
	INSTITUTION TOTALS		115,000	38,330

UNIV TEX-SW MED SCHL

127	HUMAN FACTOR SYSTEMS SRT	50,000		
-----	--------------------------	--------	--	--

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISRUP SMNTS
	UNIV TEX-SW MED SCHL	(CONTINUED)		
189	BIOSCIENCE SRT	452,078		
883	BIOSATELLITES	635,475		
975	SPACE STATION	16,000		
	INSTITUTION TOTALS		1,153,553	1,056,265
	UNIV TEXAS-ARLINGTON			
127	HUMAN FACTOR SYSTEMS SRT	11,467		
914	APOLLO SPACECRAFT	3,585		
	INSTITUTION TOTALS		15,052	15,052
	UNIV TEXAS-AUSTIN			
080	MISCELLANEOUS RESEARCH	5,000		
101	SPACECRAFT TECHNOLOGY	19,936		
103	LAUNCH VEHICLE TECHN	33,760		
124	SPACE VEHICLE SYSTEMS SRT	314,671		
125	ELECTRONICS SYSTEMS SRT	587,996		
126	AERONAUTICAL VEHICLES ART	89,916		
129	RESEARCH PROGRAM SRT	224,018		
150	TRACKING & DATA ACQUISITION SRT	230,000		
160	EARTH OBSERVATIONS SR&T	67,700		
164	COMMUNICATIONS SR&T	40,000		
181	TRAINING GRANTS	934,700		
185	PLANETARY EXPLORATION SRT SCIENCE	5,612,346		
186	PLANETARY EXPLORATION SRT AD TEC DV	24,116		
188	PHYSICS AND ASTRONOMY SRT	1,119,784		
195	LUNAR SCIENCE SPT	317,472		
196	PLANETARY ASTRONOMY	187,900		
630	APPLICATIONS TECHNOLOGY SATELLITES	125,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	48,183		
903	GEMINI SUPPORTING DEVELOPMENT	50,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS OBLIGATIONS DISBURSMNTS

UNIV TEXAS-AUSTIN (CONTINUED)

904	APOLLO SUPPORTING DEVELOPMENT	253,150
905	APOLLO APPLICATIONS SUPPORTING DEV	47,990
908	ADVANCED SYSTEMS DEVELOPMENT	30,000
914	APOLLO SPACECRAFT	232,556
924	APOLLO SPACE OPERATIONS	190,006
933	SATURN V VEHICLE	40,052
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	48,541
	INSTITUTION TOTALS	10,874,813 9,478,361

UNIV TXAS-DALLAS

160	EARTH OBSERVATIONS SRT	125,000
183	RESEARCH GRANTS	3,549,110
185	PLANETARY EXPLORATION SRT SCIENCE	2,805,750
188	PHYSICS AND ASTRONOMY SRT	1,570,526
385	DATA ANALYSIS	130,500
811	PIONEER INTERN QUIET SUN YR	2,889,707
815	VIKING	15,000
841	ORBITING GEOPHYSICAL OBSRVATORIES	1,321,740
861	INTERPLANETARY EXPLORERS /IMP/	820,046
857	MANNED LUNAR SCIENCE	13,118
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	1,569,389
879	OUNDING ROCKETS	2,265,460
914	APOLLO SPACECRAFT	1,661,994
942	APOLLO APPLICATIONS DESIGN & DEV	246,890
	INSTITUTION TOTALS	18,984,230 17,220,234

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

UNIV TEXAS-EL PASO

160	EARTH OBSERVATIONS SR&T	30,000		
188	PHYSICS AND ASTRONOMY SRT	15,000		
190	MANNED SPACE SCIENCES SRT	17,130		
195	LUNAR SCIENCE SRT	7,344		
311	NETWORK OPERATIONS-T&D ACQUISITION	74,609		
383	DATA ANALYSIS-LUNAR	20,000		
607	METEOROLOGICAL SOUNDINGS	340,476		
879	SOUNDING ROCKETS	103,000		
	INSTITUTION TOTALS		607,559	565,510

UNIV TEXAS-GALVESTON

914	APOLLO SPACECRAFT	219,308		
945	MSF EXPERIMENT DEFINITION	34,564		
	INSTITUTION TOTALS		253,872	176,081

UNIV WISC-MADISON

127	HUMAN FACTOR SYSTEMS SRT	289,086		
129	RESEARCH PROGRAM SRT	323,083		
160	EARTH OBSERVATIONS SR&T	1,089,991		
181	TRAINING GRANTS	1,150,700		
182	FACILITIES GRANTS	2,058,777		
183	RESEARCH GRANTS	4,120,000		
185	PLANETARY EXPLORATION SRT SCIENCE	74,225		
188	PHYSICS AND ASTRONOMY SRT	2,015,832		
189	BIOSCIENCE SRT	103,078		
195	LUNAR SCIENCE SRT	4,881		
601	TIROS/TOS IMPROVEMENTS	26,400		
603	METEOROLOGICAL FLIGHT EXPERIMENTS	874,450		
604	NIMBUS	221,882		
630	APPLICATIONS TECHNOLOGY SATELLITES	237,933		
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	3,658		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--	
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS DISBURSMNTS

UNIV WISC-MADISON

(CONTINUED)

821	ORBITING SOLAR OBSERVATORIES	61,085	
831	ORBITING ASTRONOMICAL OBSERVATORIES	5,181,572	
848	RETURNED LUNAR SAMPLE ANALYSIS	35,000	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	41,000	
861	INTERPLANETARY EXPLORERS /IMP/	414,700	
879	SOUNDING ROCKETS	581,000	
905	APOLLO APPLICATIONS SUPPORTING DEV	679,101	
914	APOLLO SPACECRAFT	184,284	
948	AAP EXPERIMENT DEVELOPMENT	128,015	
961	SPACECRAFT MODIFICATIONS	51,038	
	INSTITUTION TOTALS		19,950,771 17,711,527

UTAH STATE UNIV

125	ELECTRONICS SYSTEMS SRT	68,441	
129	RESEARCH PROGRAM SRT	2,574	
181	TRAINING GRANTS	433,600	
189	BIOSCIENCE SRT	130,806	
	INSTITUTION TOTALS		635,421 555,352

VANDERBILT UNIVERSTY

120	POWER & ELECTRIC PROPELLION, SRT	13,651	
125	ELECTRONICS SYSTEMS SRT	112,666	
129	RESEARCH PROGRAM SRT	295,978	
181	TRAINING GRANTS	857,800	
185	PLANETARY EXPLORATION SRT SCIENCE	133,550	
721	V/STOL AIRCRAFT TECHNOLOGY	27,000	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FON	INSTITUTION UNIQUE PROJECT TITLE	---INSTITUTION TOTALS--		
		OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
VANDERBILT UNIVERSITY (CONTINUED)				
931	SATURN I VEHICLE	25,875		
933	SATURN V VEHICLE	21,002		
	INSTITUTION TOTALS		1,487,522	1,341,216
VILLANOVA UNIVERSITY				
125	ELECTRONICS SYSTEMS SRT	57,040		
127	HUMAN FACTOR SYSTEMS SRT	47,287		
181	TRAINING GRANTS	38,200		
	INSTITUTION TOTALS		142,527	136,948
VIRGINIA COMMONWLTH U				
127	HUMAN FACTOR SYSTEMS SRT	1,078,861		
911	MERCURY	58,000		
	INSTITUTION TOTALS		1,136,861	959,735
VIRGINIA POLY INST				
124	SPACE VEHICLE SYSTEMS SRT	131,575		
125	ELECTRONICS SYSTEMS SRT	40,940		
126	AERONAUTICAL VEHICLES ART	99,800		
127	HUMAN FACTOR SYSTEMS SRT	21,390		
128	CHEMICAL PROPULSION SRT	178,442		
129	RESEARCH PROGRAM SRT	558,838		
181	TRAINING GRANTS	925,800		
183	RESEARCH GRANTS	547,200		
184	BIOSCIENCE SRT	50,550		
933	SATURN V VEHICLE	69,102		
	INSTITUTION TOTALS		2,623,637	2,158,900
WASHINGTON STATE COL				
000	MISCELLANEOUS RESEARCH	25,000		
	INSTITUTION TOTALS		25,000	25,000

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	---INSTITUTION TOTALS--		
		OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
WASHINGTON STATE U				

000	MISCELLANEOUS RESEARCH	8,957		
181	TRAINING GRANTS	427,600		
189	BIOSCIENCE SRT	59,687		
933	SATURN V VEHICLE	139,050		
	INSTITUTION TOTALS		635,294	534,562
WASHINGTON UNIVERSTY				

124	SPACE VEHICLE SYSTEMS SRT	34,971		
126	AERONAUTICAL VEHICLES ART	165,916		
127	HUMAN FACTOR SYSTEMS SRT	16,144		
143	ECONOMIC STUDIES	450,000		
181	TRAINING GRANTS	960,500		
182	FACILITIES GRANTS	600,000		
183	RESEARCH GRANTS	1,850,000		
188	PHYSICS AND ASTRONOMY SRT	755,967		
190	MANNED SPACE SCIENCES SRT	40,000		
914	APOLLO SPACECRAFT	385,800		
945	MSF EXPERIMENT DEFINITION	120,741		
975	SPACE STATION	121,030		
	INSTITUTION TOTALS		5,501,069	4,794,008
WAYNE STATE UNIV				

000	MISCELLANEOUS RESEARCH	10,760		
126	AERONAUTICAL VEHICLES ART	86,138		
129	RESEARCH PROGRAM SRT	43,808		
141	IDENTIFICATION AND DISSEMINATION	1,167,435		
143	ECONOMIC STUDIES	23,151		
181	TRAINING GRANTS	318,500		
	INSTITUTION TOTALS		1,649,792	1,542,160
WESLEYAN UNIVERSITY				

183	RESEARCH GRANTS	28,558		
185	PLANETARY EXPLORATION SRT SCIENCE	70,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

WESLEYAN UNIVERSITY (CONTINUED)

188	PHYSICS AND ASTRONOMY SRT	5,835		
195	LUNAR SCIENCE SRT	155,450		
831	ORBITING ASTRONOMICAL OBSERVATORIES	8,300		
914	APOLLO SPACECRAFT INSTITUTION TOTALS	103,593	371,736	151,673

WEST VIRGINIA UNIV

120	POWER & ELECTRIC PROPULSION, SRT	1,000		
124	SPACE VEHICLE SYSTEMS SRT	46,882		
126	AERONAUTICAL VEHICLES ART	17,956		
127	HUMAN FACTOR SYSTEMS SRT	265,294		
181	TRAINING GRANTS	877,500		
183	RESEARCH GRANTS	550,000		
721	V/STOL AIRCRAFT TECHNOLOGY	72,942		
831	ORBITING ASTRONOMICAL OBSERVATORIES INSTITUTION TOTALS	5,700	1,837,274	1,268,622

WESTERN MICHIGAN U

189	BIOSCIENCE SRT INSTITUTION TOTALS	26,389	26,389	26,388
-----	--------------------------------------	--------	--------	--------

WESTERN STATE COL

879	SOUNDING ROCKETS INSTITUTION TOTALS	95,831	95,831	82,158
-----	--	--------	--------	--------

WICHITA STATE UNIV

125	ELECTRONICS SYSTEMS SRT	20,820		
126	AERONAUTICAL VEHICLES ART	41,082		
129	RESEARCH PROGRAM SRT	31,612		
720	SUPERSONIC AIRCRAFT TECHNOLOGY INSTITUTION TOTALS	78,563	172,077	162,832

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS
	WOODSHOLE OCEAN INST			
<hr/>				
125	ELECTRONICS SYSTEMS SRT	450,000		
189	BIOSCIENCE SRT	183,000		
190	MANNED SPACE SCIENCES SRT	64,557		
	INSTITUTION TOTALS		697,557	474,147
	WOODSTOCK COLLEGE			
<hr/>				
183	RESEARCH GRANTS	30,000		
185	PLANETARY EXPLORATION	7,000		
	SRT SCIENCE			
188	PHYSICS AND ASTRONOMY SRT	100,000		
	INSTITUTION TOTALS		137,000	137,000
	WORCESTER POLY INST			
<hr/>				
127	HUMAN FACTOR SYSTEMS SRT	182,769		
160	EARTH OBSERVATIONS SR&T	50,000		
181	TRAINING GRANTS	199,700		
	INSTITUTION TOTALS		432,469	308,455
	XAVIER UNIV-OHIO			
<hr/>				
188	PHYSICS AND ASTRONOMY SRT	12,856		
	INSTITUTION TOTALS		12,856	12,856
	YALE UNIVERSITY			
<hr/>				
125	ELECTRONICS SYSTEMS SRT	328,465		
129	RESEARCH PROGRAM SRT	769,522		
150	TRACKING & DATA	170,109		
	ACQUISITION SRT			
181	TRAINING GRANTS	1,240,700		
193	RESEARCH GRANTS	267,017		
185	PLANETARY EXPLORATION	1,263,221		
	SRT SCIENCE			
188	PHYSICS AND ASTRONOMY SRT	864,896		
189	BIOSCIENCE SRT	1,106,481		
195	LUNAR SCIENCE SRT	55,730		

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN	INSTITUTION	---INSTITUTION TOTALS--		
FPN	UNIQUE PROJECT TITLE	OBLIGATIONS	OBLIGATIONS	DISBURSMNTS

YALE UNIVERSITY (CONTINUED)

383	DATA ANALYSIS-LUNAR	35,000		
848	RETURNED LUNAR SAMPLE ANALYSIS	188,613		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	100,320		
914	APOLLO SPACECRAFT	388,700		
942	APOLLO APPLICATIONS DESIGN & DEV	32,400		
	INSTITUTION TOTALS		6,811,174	6,035,060

YESHIVA UNIVERSITY

127	HUMAN FACTOR SYSTEMS SRT	247,797		
181	TRAINING GRANTS	327,500		
183	RESEARCH GRANTS	345,249		
188	PHYSICS AND ASTRONOMY SRT	100,000		
945	MSF EXPERIMENT DEFINITION	117,677		

GRAND TOTALS	1,049,766,324	917,042,591
--------------	---------------	-------------

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS
BY FUNDING ORGANIZATIONAL ELEMENT AND INSTITUTION

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - MISC VARIOUS OFFICES - MISC		
AROOSTOOK STATE COL	26,000	
BALL STATE UNIVERSTY	20,450	
COLLEGE OF WOOSTER	3,613	
COLUMBIA UNIVERSITY	62,305	
CORNELL UNIVERSITY	26,120	
DUKE UNIVERSITY	45,631	
FARMINGTON STATE COL	40,000	
FLORIDA STATE UNIV	58,331	
GORHAM STATE COLLEGE	40,000	
HARVARD UNIVERSITY	17,759	
INDIANA UNIVERSITY	25,899	
MONTANA STATE UNIV	25,542	
NORTHWESTERN UNIV	112,000	
OHIO STATE UNIV	38,921	
OKLAHOMA STATE UNIV	599,000	
OREGON STATE UNIV	16,050	
STATE UNIV NY-BUFFAL	168,046	
SYRACUSE UNIVERSITY	123,500	
TEXAS A&M UNIVERSITY	39,866	
UNIV CALIF-BERKELEY	420,012	
UNIV CALIF-L ANGELES	110,000	
UNIV MO-KANSAS CITY	255,509	
UNIV N CAR-CHPL HILL	167,734	
UNIV OF ARIZONA	56,120	
UNIV OF BRIDGEPORT	5,185	
UNIV OF COLORADO	29,374	
UNIV OF DELAWARE	11,660	
UNIV OF FLORIDA	40,000	
UNIV OF MARYLAND	6,800	
UNIV OF MIAMI	20,057	
UNIV OF MICHIGAN	320,555	
UNIV OF MINNESOTA	22,297	
UNIV OF REDLANDS	155,028	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - MISC VARIOUS OFFICES	- MISC	(CONTINUED)
-----	-----	-----
UNIV OF SO FLORIDA	47,764	
UNIV OF UTAH	11,950	
UNIV OF VERMONT	9,876	
UNIV OF VIRGINIA	15,000	
UNIV TEXAS-AUSTIN	5,000	
WASHINGTON STATE COL	25,000	
WASHINGTON STATE U	8,957	
WAYNE STATE UNIV	10,760	3,243,671
HQ - OTU TECHNOLOGY UTILIZATN - OTU		
-----	-----	-----
BOSTON UNIVERSITY	49,763	
GEORGE WASHINGTON U	1,485,438	
INDIANA UNIVERSITY	1,886,799	
MASS INST OF TECH	505,540	
NORTHWESTERN UNIV	213,529	
OKLAHOMA STATE UNIV	289,369	
SOUTHEASTN STATE COL	631,124	
STANFORD UNIVERSITY	17,000	
SYRACUSE UNIVERSITY	5,655	
UNIV CALIF-BERKELEY	987,960	
UNIV CALIF-L ANGELES	119,013	
UNIV MO-COLUMBIA	175,926	
UNIV OF CHICAGO	92,000	
UNIV OF COLORADO	117,562	
UNIV OF CONNECTICUT	928,108	
UNIV OF DENVER	1,058,967	
UNIV OF GEORGIA	303,845	
UNIV OF MIAMI.	81,432	
UNIV OF MINNESOTA	100,000	
UNIV OF NEW MEXICO	724,661	
UNIV OF PENNSYLVANIA	300,000	
UNIV OF PITTSBURGH	1,229,003	
UNIV OF SOUTHERN CAL	1,257,432	
WASHINGTON UNIVERSTY	450,000	
WAYNE STATE UNIV	1,190,586	14,200,712

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA UNIVERSITY AFFAIRS - OUA		
-----	-----	-----
A&T STATE U OF N CAR	39,170	
ADELPHI UNIVERSITY	778,070	
ALABAMA A&M COLLEGE	42,506	
ALFRED UNIVERSITY	97,200	
ARIZONA STATE UNIV	530,400	
AUBURN UNIVERSITY	1,601,741	
BAYLOR UNIVERSITY	53,000	
BISHOP COLLEGE	21,159	
BOSTON COLLEGE	224,400	
BOSTON UNIVERSITY	389,400	
BOWIE STATE COLLEGE	12,334	
BRANDEIS UNIVERSITY	399,900	
BRIGHAM YOUNG UNIV	210,400	
BROWN UNIVERSITY	1,191,600	
CALIF INST OF TECH	2,670,947	
CARNEGIE MELLON UNIV	1,185,800	
CASE WESTERN RESERVE	4,622,394	
CATHOLIC UNIVERSITY	1,091,623	
CITY COLLEGE OF N Y	167,704	
CITY U N Y-GRAD CNTR	391,000	
CLARK UNIVERSITY	166,100	
CLARKSON COL OF TECH	269,100	
CLEMSON UNIVERSITY	469,800	
COLLEGE OF WM & MARY	1,128,275	
COLORADO SCH OF MINE	515,000	
COLORADO STATE UNIV	845,755	
COLUMBIA UNIVERSITY	2,880,334	
CORNELL UNIVERSITY	3,142,352	
DARTMOUTH COLLEGE	411,500	
DELAWARE STATE COL	8,511	
DREXEL UNIVERSITY	924,200	
DUKE UNIVERSITY	1,393,400	
DUQUESNE UNIVERSITY	100,700	
EMORY UNIVERSITY	211,400	
FEDERAL CITY COLLEGE	27,934	
FLORIDA STATE UNIV	681,700	
FORDHAM UNIVERSITY	230,100	
GEORGE WASHINGTON U	2,173,900	
GEORGETOWN UNIV	460,200	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA UNIVERSITY AFFAIRS - OUA	(CONTINUED)	
GEORGIA INST OF TECH	4,396,648	
HAMPTON INSTITUTE	11,125	
HARVARD UNIVERSITY	276,000	
HOWARD UNIVERSITY	520,300	
ILL INST OF TECH	990,400	
INDIANA UNIVERSITY	973,223	
IOWA STATE UNIV	1,080,900	
JOHNS HOPKINS UNIV	918,800	
KANSAS STATE UNIV	1,060,700	
KENT STATE UNIV	287,900	
LA STATE U-BAT ROUGE	1,222,824	
LEHIGH UNIVERSITY	792,400	
LOWELL TECH INST	61,200	
MARQUETTE UNIVERSITY	53,100	
MASS INST OF TECH	11,203,008	
MIAMI UNIVERSITY	41,599	
MICHIGAN STATE UNIV	931,692	
MICHIGAN TECH UNIV	94,500	
MISSISSIPPI STATE U	533,300	
MONTANA STATE UNIV	924,700	
MORGAN STATE COLLEGE	36,972	
NEW MEXICO STATE U	1,067,900	
NEW YORK UNIVERSITY	2,977,371	
NO CAROLINA STATE U	1,057,000	
NO DAKOTA STATE UNIV	179,600	
NORTHEASTERN UNIV	446,481	
NORTHWESTERN UNIV	1,627,800	
OAKWOOD COLLEGE	24,829	
OHIO STATE UNIV	1,050,151	
OHIO UNIVERSITY	192,600	
OKLAHOMA STATE UNIV	1,160,500	
OLD DOMINION UNIV	663,209	
OREGON STATE UNIV	778,500	
PENNSYLVANIA STATE U	2,727,271	
POLY INST BROOKLYN	1,866,200	
PRAIRIE VIEW A&M COL	63,908	
PRINCETON UNIVERSITY	1,425,944	
PURDUE UNIVERSITY	4,003,620	
RENSSELAER POLY INST	3,189,800	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA UNIVERSITY AFFAIRS - OUA	(CONTINUED)	
RICE UNIVERSITY	4,636,700	
RUTGERS-STATE UNIV	650,754	
SD DAKOTA SCHL MINES	100,000	
SOUTHERN ILLINOIS U	93,000	
SOUTHERN METHODIST U	870,000	
ST LOUIS UNIVERSITY	757,800	
STANFORD UNIVERSITY	6,094,774	
STATE U NY-STONY BRK	438,168	
STATE UNIV NY-ALBANY	30,000	
STATE UNIV NY-BUFFAL	177,000	
STEVENS INST OF TECH	566,500	
SYRACUSE UNIVERSITY	1,968,900	
TALLADEGA COLLEGE	18,658	
TEMPLE UNIVERSITY	185,800	
TEXAS A&M UNIVERSITY	3,229,600	
TEXAS CHRISTIAN UNIV	277,800	
TEXAS SOUTHERN UNIV	16,000	
TEXAS TECH COLLEGE	538,700	
TUFTS UNIVERSITY	231,700	
TULANE UNIVERSITY	824,800	
TUSKEGEE INSTITUTE	48,251	
UNIV ALA-HUNTSVILLE	250,000	
UNIV ALA-TUSCALOOSA	3,810,203	
UNIV ARKANSAS-FAYETV	742,600	
UNIV CALIF-BERKELEY	6,213,575	
UNIV CALIF-L ANGELES	7,121,591	
UNIV CALIF-RIVERSIDE	228,100	
UNIV CALIF-S BARBARA	218,966	
UNIV CALIF-SAN DIEGO	626,700	
UNIV ILLINOIS-URBANA	2,392,300	
UNIV MO-COLUMBIA	1,516,400	
UNIV MO-ROLLA	473,700	
UNIV N CAR-CHPL HILL	1,403,600	
UNIV NEBRASKA-LINCLN	382,800	
UNIV NEW HAMPSHIRE	353,000	
UNIV OF ALASKA	199,600	
UNIV OF ARIZONA	2,674,277	
UNIV OF CHICAGO	3,372,639	
UNIV OF CINCINNATI	1,323,800	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA UNIVERSITY AFFAIRS - OUA	(CONTINUED)	
UNIV OF COLORADO	1,741,400	
UNIV OF CONNECTICUT	629,600	
UNIV OF DELAWARE	584,400	
UNIV OF DENVER	2,654,473	
UNIV OF FLORIDA	3,875,300	
UNIV OF GEORGIA	652,800	
UNIV OF HAWAII	229,800	
UNIV OF HOUSTON	2,392,377	
UNIV OF IDAHO	177,900	
UNIV OF IOWA	1,779,480	
UNIV OF KANSAS	3,902,700	
UNIV OF KENTUCKY	537,600	
UNIV OF LOUISVILLE	568,742	
UNIV OF MAINE-ORONO	732,050	
UNIV OF MARYLAND	5,642,005	
UNIV OF MASSACHUSETT	293,100	
UNIV OF MIAMI	2,086,587	
UNIV OF MICHIGAN	2,872,527	
UNIV OF MINNESOTA	6,163,539	
UNIV OF MISSISSIPPI	262,800	
UNIV OF MONTANA	255,600	
UNIV OF NEVADA-RENO	244,600	
UNIV OF NEW MEXICO	1,078,100	
UNIV OF NORTH DAKOTA	85,500	
UNIV OF NOTRE DAME	794,300	
UNIV OF OKLAHOMA	1,261,600	
UNIV OF PENNSYLVANIA	2,003,200	
UNIV OF PITTSBURGH	4,907,357	
UNIV OF RHODE ISLAND	349,400	
UNIV OF ROCHESTER	1,935,200	
UNIV OF SO CAROLINA	401,500	
UNIV OF SOUTH DAKOTA	190,600	
UNIV OF SOUTHERN CAL	2,995,574	
UNIV OF TENNESSEE	1,990,400	
UNIV OF TOLEDO	252,400	
UNIV OF UTAH	727,000	
UNIV OF VERMONT	1,110,300	
UNIV OF VIRGINIA	1,573,100	
UNIV OF WASHINGTON	2,652,500	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA UNIVERSITY AFFAIRS - OUA	(CONTINUED)	
-----	-----	-----
UNIV OF WYOMING	181,700	
UNIV SO MISSISSIPPI	100,600	
UNIV TEXAS-AUSTIN	934,700	
UNIV TEXAS-DALLAS	3,549,110	
UNIV WISC-MADISON	7,329,477	
UTAH STATE UNIV	433,600	
VANDERBILT UNIVERSTY	857,800	
VILLANOVA UNIVERSITY	38,200	
VIRGINIA POLY INST	1,473,000	
WASHINGTON STATE U	427,600	
WASHINGTON UNIVERSTY	3,410,500	
WAYNE STATE UNIV	318,500	
WESLEYAN UNIVERSITY	28,558	
WEST VIRGINIA UNIV	1,427,500	
WOODSTOCK COLLEGE	30,000	
WORCESTER POLY INST	199,700	
YALE UNIVERSITY	1,507,717	
YESHIVA UNIVERSITY	597,749	223,167,162
HQ - OT&DA TRACKING & DATA ACQ - OT&DA		
-----	-----	-----
MASS INST OF TECH	364,852	
RENSSELAER POLY INST	2,453	
UNIV TEXAS-AUSTIN	230,000	597,305
HQ - OART MISSION ANALYSIS DIV - ARC		
-----	-----	-----
GEORGE WASHINGTON U	220,738	220,738
HQ - OART SPACE PWR ELECT PROP - RN		
-----	-----	-----
CATHOLIC UNIVERSITY	245,406	
COLORADO STATE UNIV	249,641	
PRINCETON UNIVERSITY	1,302,912	
RENSSELAER POLY INST	39,200	
UNIV CALIF-SAN DIEGO	314,117	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - DART SPACE PWR ELECT PROP - RN	(CONTINUED)	
UNIV ILLINOIS-URBANA	26,802	
UNIV OF CONNECTICUT	56,920	
UNIV OF MARYLAND	180,180	
UNIV OF MICHIGAN	72,254	
UNIV OF PENNSYLVANIA	1,600	
UNIV OF UTAH	24,546	2,513,578
HQ - DART AEC NASA NUCLR PROP - NPO		
CASE WESTERN RESERVE	308,717	
CATHOLIC UNIVERSITY	286,999	
ILL INST OF TECH	691,516	
MASS INST OF TECH	40,558	
PRINCETON UNIVERSITY	378,000	
RENSSELAER POLY INST	93,000	
UNIV OF ARIZONA	300,738	
UNIV OF MARYLAND	130,408	
UNIV OF MIAMI	143,170	2,373,106
HQ - DART CHEMICAL PROPULSION - RP		
CALIF INST OF TECH	643,102	
CASE WESTERN RESERVE	49,945	
ILL INST OF TECH	382,534	
IOWA STATE UNIV	200,257	
MASS INST OF TECH	214,992	
NEW YORK UNIVERSITY	309,296	
PENNSYLVANIA STATE U	245,912	
PRINCETON UNIVERSITY	871,791	
PURDUE UNIVERSITY	509,684	
RENSSELAER POLY INST	8,200	
STANFORD UNIVERSITY	85,330	
STEVENS INST OF TECH	139,462	
UNIV CALIF-BERKELEY	69,933	
UNIV ILLINOIS-URBANA	42,000	
UNIV OF DENVER	151,754	
UNIV OF FLORIDA	102,499	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OART CHEMICAL PROPULSION - RP	(CONTINUED)	
UNIV OF MIAMI	12,021	
UNIV OF MICHIGAN	529,825	
UNIV OF NOTRE DAME	40,000	
UNIV OF PENNSYLVANIA	1,687,021	
UNIV OF SOUTHERN CAL	37,924	
UNIV OF UTAH	522,492	6,855,974
HQ - OART SPACE VEHICLES - RV		
CALIF INST OF TECH	363,941	
CASE WESTERN RESERVE	332,136	
CATHOLIC UNIVERSITY	208,079	
DREXEL UNIVERSITY	100,686	
HARVARD UNIVERSITY	791,823	
MASS INST OF TECH	25,152	
NEW YORK UNIVERSITY	201,327	
NORTHWESTERN UNIV	181,388	
OHIO STATE UNIV	147,547	
OKLAHOMA STATE UNIV	64,124	
POLY INST BROOKLYN	36,255	
PRINCETON UNIVERSITY	116,810	
PURDUE UNIVERSITY	300,652	
SOUTHERN ILLINOIS U	163,592	
SOUTHERN METHODIST U	44,224	
UNIV CALIF-BERKELEY	133,050	
UNIV CALIF-L ANGELES	351,400	
UNIV ILLINOIS-URBANA	129,431	
UNIV OF FLORIDA	43,900	
UNIV OF KENTUCKY	42,477	
UNIV OF MICHIGAN	18,375	
UNIV OF NORTH DAKOTA	20,935	
UNIV OF WASHINGTON	176,594	3,993,898
HQ - OART ELECTRONICS & CONTRL - RE		
ARIZONA STATE UNIV	15,164	
CASE WESTERN RESERVE	245,159	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
---	----------------------------	---------------------------

HQ - DART ELECTRONICS & CONTRL - RE	(CONTINUED)
-------------------------------------	-------------

CLEMSON UNIVERSITY	42,870
GEORGE WASHINGTON U	19,950
GEORGIA INST OF TECH	151,201
HAHNEMANN MED COL	9,606
MASS INST OF TECH	2,625,406
NEW YORK UNIVERSITY	76,461
NORTHEASTERN UNIV	63,844
OHIO STATE UNIV	284,390
PENNSYLVANIA STATE U	373,296
PRINCETON UNIVERSITY	50,000
PURDUE UNIVERSITY	337,998
RENSSELAER POLY INST	170,774
STANFORD UNIVERSITY	977,763
UNIV ARKANSAS-FAYETV	267,112
UNIV CALIF-BERKELEY	497,670
UNIV CALIF-SAN DIEGO	31,169
UNIV ILLINOIS-URBANA	48,564
UNIV OF ARIZONA	126,664
UNIV OF CINCINNATI	428,810
UNIV OF CONNECTICUT	279,890
UNIV OF KANSAS	33,277
UNIV OF MARYLAND	150,000
UNIV OF MICHIGAN	1,028,487
UNIV OF MINNESOTA	20,315
UNIV OF PENNSYLVANIA	121,831
UNIV OF ROCHESTER	36,706
UNIV OF SO CAROLINA	20,384
UNIV OF SOUTHERN CAL	329,050
UNIV OF TENNESSEE	99,000
UNIV TEXAS-AUSTIN	229,318
	9,192,129

HQ - DART AERONAUTICS	- RA
-----------------------	------

GEORGIA INST OF TECH	16,952
LEHIGH UNIVERSITY	124,737
MASS INST OF TECH	50,844
PENNSYLVANIA STATE U	6,350
PRINCETON UNIVERSITY	59,965

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OART AERONAUTICS - RA	(CONTINUED)	
PURDUE UNIVERSITY	125,685	
RUTGERS-STATE UNIV	39,578	
SYRACUSE UNIVERSITY	148,494	
UNIV CALIF-BERKELEY	20,700	
UNIV OF MICHIGAN	116,026	
VIRGINIA POLY INST	99,800	
WEST VIRGINIA UNIV	72,942	882,073
HQ - OART BIOTECH & HUMAN RSCH - RB		
ALABAMA A&M COLLEGE	53,738	
BROWN UNIVERSITY	5,000	
COLUMBIA UNIVERSITY	98,639	
EMORY UNIVERSITY	169,112	
GEORGETOWN UNIV	179,428	
HAHNEMANN MED COL	9,605	
HARVARD UNIVERSITY	549,629	
INDIANA UNIVERSITY	60,000	
MASS INST OF TECH	497,032	
TULANE UNIVERSITY	52,754	
UNIV ALA-BIRMINGHAM	15,000	
UNIV CALIF-BERKELEY	1,477,805	
UNIV CALIF-DAVIS	37,273	
UNIV CALIF-L ANGELES	69,190	
UNIV ILLINOIS-URBANA	1,206,270	
UNIV OF DENVER	29,402	
UNIV OF MARYLAND	880,744	
UNIV OF MINNESOTA	465,280	
UNIV OF PENNSYLVANIA	12,550	
UNIV OF SO FLORIDA	8,053	
UNIV OF WASHINGTON	26,268	
UNIV OKLA-MEDL CNTR	54,660	
UNIV TEXAS-ARLINGTON	11,467	
VIRGINIA COMMWLTH U	29,432	
WEST VIRGINIA UNIV	55,344	6,053,675

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - DART RESEARCH	- RR	
-----	-----	-----
AMERICAN UNIVERSITY	30,000	
ARIZONA STATE UNIV	19,538	
BRANDEIS UNIVERSITY	38,420	
BROWN UNIVERSITY	225,557	
CALIF INST OF TECH	805,950	
CARNEGIE MELLON UNIV	337,257	
CASE WESTERN RESERVE	1,713,710	
CATHOLIC UNIVERSITY	152,431	
CITY COLLEGE OF N Y	133,610	
CLARKSON COL OF TECH	42,990	
COLLEGE OF WM & MARY	475,000	
COLORADO STATE UNIV	39,327	
COLUMBIA UNIVERSITY	713,908	
CORNELL UNIVERSITY	664,185	
DREXEL UNIVERSITY	112,000	
EMORY UNIVERSITY	47,099	
FLORIDA STATE UNIV	167,812	
GEORGIA INST OF TECH	355,214	
HARVARD UNIVERSITY	144,000	
ILL INST OF TECH	19,512	
INDIANA UNIVERSITY	29,342	
IOWA STATE UNIV	36,361	
JOHNS HOPKINS UNIV	270,000	
KENT STATE UNIV	80,262	
LA STATE U-BAT ROUGE	17,831	
LEHIGH UNIVERSITY	319,169	
LINFIELD COLLEGE	25,000	
MASS INST OF TECH	3,641,439	
MICHIGAN STATE UNIV	39,020	
NEW MEXICO STATE U	122,047	
NEW YORK UNIVERSITY	1,090,277	
NO CAROLINA STATE U	268,365	
NORTHEASTERN UNIV	3,332	
NORTHWESTERN UNIV	292,897	
OHIO STATE UNIV	435,998	
OKLAHOMA STATE UNIV	40,260	
PENNSYLVANIA STATE U	123,312	
POLY INST BROOKLYN	553,787	
PRINCETON UNIVERSITY	340,961	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - DART RESEARCH	- RR	(CONTINUED)
PURDUE UNIVERSITY	23,252	
RENSSELAER POLY INST	3,618,799	
RICE UNIVERSITY	3,175,000	
SETON HALL UNIV	27,423	
SOUTHERN ILLINOIS U	17,558	
SOUTHERN METHODIST U	28,500	
SOUTHERN UNIVERSITY	10,558	
STANFORD UNIVERSITY	2,144,068	
STATE U NY-STONY BRK	159,159	
STEVENS INST OF TECH	291,650	
SYRACUSE UNIVERSITY	351,034	
TEMPLE UNIVERSITY	30,000	
TULANE UNIVERSITY	56,000	
UNIV CALIF-BERKELEY	751,015	
UNIV CALIF-DAVIS	28,500	
UNIV CALIF-S BARBARA	56,434	
UNIV CALIF-SAN DIEGO	151,237	
UNIV ILLINOIS-CHICGO	30,000	
UNIV ILLINOIS-URBANA	325,346	
UNIV MO-ROLLA	34,696	
UNIV MO-ST LOUIS	9,917	
UNIV OF ARIZONA	86,962	
UNIV OF CHICAGO	652,000	
UNIV OF COLORADO	94,223	
UNIV OF DELAWARE	115,102	
UNIV OF DENVER	202,688	
UNIV OF FLORIDA	674,010	
UNIV OF GEORGIA	25,000	
UNIV OF HOUSTON	20,196	
UNIV OF IOWA	44,168	
UNIV OF KENTUCKY	149,247	
UNIV OF MAINE-ORONO	30,000	
UNIV OF MARYLAND	331,104	
UNIV OF MASSACHUSETT	32,657	
UNIV OF MIAMI	73,700	
UNIV OF MICHIGAN	1,135,104	
UNIV OF MINNESOTA	163,104	
UNIV OF NOTRE DAME	351,364	
UNIV OF PENNSYLVANIA	32,067	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION
AND INSTITUTIONINSTITUTION
OBLIGATIONS FUNDING ORG
 SUB-TOTALS

HQ - DART RESEARCH

- RR

(CONTINUED)

UNIV OF PITTSBURGH	109,415
UNIV OF ROCHESTER	301,404
UNIV OF SO FLORIDA	12,800
UNIV OF SOUTHERN CAL	192,669
UNIV OF TENNESSEE	295,689
UNIV OF UTAH	112,565
UNIV OF VERMONT	40,670
UNIV OF VIRGINIA	651,841
UNIV OF WASHINGTON	2,480,750
UNIV OF WYOMING	14,981
UNIV TEXAS-AUSTIN	224,018
UNIV WISC-MADISON	283,123
VIRGINIA POLY INST	361,000
WAYNE STATE UNIV	43,808
WICHITA STATE UNIV	31,612
YALE UNIVERSITY	628,910 35,285,277

HQ - OSS&A APOLLO LUNAR PROGRAM - MAL

ARIZONA STATE UNIV
CALIF INST OF TECH
CARNEGIE MELLON UNIV
COLLEGE VIRGIN ISLND
COLUMBIA UNIVERSITY
CORNELL UNIVERSITY
HARVARD UNIVERSITY
IOWA STATE UNIV
MASS INST OF TECH
NORTHWESTERN UNIV
OREGON STATE UNIV
PENNSYLVANIA STATE U
PRINCETON UNIVERSITY
SO DAKOTA SCHL MINES
STANFORD UNIVERSITY
UNIV CALIF-BERKELEY
UNIV CALIF-DAVIS
UNIV CALIF-L ANGELES
UNIV CALIF-S BARBARA

36,600
467,909
22,800
98,900
40,000
101,000
87,273
15,330
308,050
27,202
100,000
18,000
26,500
23,750
125,026
33,965
6,733
120,668
84,986

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A APOLLO LUNAR PROGRAM - MAL		(CONTINUED)
UNIV CALIF-SAN DIEGO	439,541	
UNIV OF ARIZONA	274,773	
UNIV OF CHICAGO	205,202	
UNIV OF MARYLAND	316,500	
UNIV OF MASSACHUSETT	16,229	
UNIV OF NEW MEXICO	75,000	
UNIV OF OREGON	62,000	
UNIV OF PITTSBURGH	110,954	
UNIV TEXAS-AUSTIN	317,472	
UNIV TEXAS-EL PASO	27,344	
UNIV WISC-MADISON	4,881	
WESLEYAN UNIVERSITY	155,450	
YALE UNIVERSITY	90,730	3,840,768
HQ - OSS&A COMMUNICATIONS PROG - SC		
NEW MEXICO STATE U	18,415	
OHIO STATE UNIV	356,256	
UNIV CALIF-L ANGELES	51,295	
UNIV ILLINOIS-URBANA	147,000	
UNIV OF HAWAII	112,704	
UNIV OF MICHIGAN	128,960	814,630
HQ - OSS&A LAUNCH VEHICLES - SV		
PRINCETON UNIVERSITY	698,685	
PURDUF UNIVERSITY	100,000	
UNIV OF DENVER	240	
UNIV OF MIAMI	28,091	827,016
HQ - OSS&A PLANETARY PROGRAMS - SL		
ARIZONA STATE UNIV	112,018	
BOSTON UNIVERSITY	24,480	
BRIGHAM YOUNG UNIV	77,671	
BROWN UNIVERSITY	36,615	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A PLANETARY PROGRAMS - SL	(CONTINUED)	
CALIF INST OF TECH	4,255,211	
CARNEGIE MELLON UNIV	96,983	
COLLEGE VIRGIN ISLND	100,420	
COLUMBIA UNIVERSITY	520,000	
CORNELL UNIVERSITY	1,065,380	
FLORIDA STATE UNIV	504,837	
GEORGETOWN UNIV	130,558	
GEORGIA INST OF TECH	447,000	
HAMILTON COLLEGE	5,000	
HARVARD UNIVERSITY	1,048,725	
HOWARD UNIVERSITY	13,000	
KANSAS STATE UNIV	103,054	
MASS INST OF TECH	3,400,991	
NEW MEXICO STATE U	1,197,372	
NEW YORK UNIVERSITY	55,434	
NORTHWESTERN UNIV	608,827	
OHIO STATE UNIV	396,702	
OREGON STATE UNIV	62,140	
PENNSYLVANIA STATE U	97,563	
PRINCETON UNIVERSITY	149,800	
PURDUF UNIVERSITY	122,527	
RENSSELAER POLY INST	1,243,400	
RICE UNIVERSITY	252,485	
STANFORD UNIVERSITY	1,472,890	
STATE UNIV NY-ALBANY	32,745	
TEXAS A&M UNIVERSITY	264,773	
UNIV CALIF-BERKELEY	2,297,144	
UNIV CALIF-L ANGELES	1,658,433	
UNIV CALIF-S BARBARA	22,435	
UNIV CALIF-SAN DIEGO	1,648,569	
UNIV ILLINOIS-URBANA	306,335	
UNIV MARYLAND-BALT	766,201	
UNIV OF ARIZONA	3,250,919	
UNIV OF CHICAGO	1,775,871	
UNIV OF COLORADO	1,721,189	
UNIV OF FLORIDA	237,200	
UNIV OF HAWAII	4,309,347	
UNIV OF HOUSTON	143,527	
UNIV OF IOWA	9,215	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A PLANETARY PROGRAMS - SL	(CONTINUED)	
-----	-----	-----
UNIV OF KANSAS	56,370	
UNIV OF MARYLAND	383,000	
UNIV OF MASSACHUSETT	156,375	
UNIV OF MIAMI	199,260	
UNIV OF MICHIGAN	715,431	
UNIV OF MINNESOTA	725,149	
UNIV OF NEVADA-RENO	90,000	
UNIV OF NEW MEXICO	418,028	
UNIV OF OREGON	70,000	
UNIV OF PENNSYLVANIA	14,715	
UNIV OF PITTSBURGH	887,410	
UNIV OF ROCHESTER	73,693	
UNIV OF SO CAROLINA	95,069	
UNIV OF SOUTHERN CAL	320,600	
UNIV OF TENNESSEE	611,485	
UNIV OF VIRGINIA	299,031	
UNIV OF WASHINGTON	88,020	
UNIV TEXAS-AUSTIN	5,788,166	
UNIV TEXAS-DALLAS	2,834,488	
UNIV WISC-MADISON	74,225	
VANDERBILT UNIVERSTY	133,550	
WESLEYAN UNIVERSITY	70,000	
YALE UNIVERSITY	1,263,221	51,412,272
HQ - OSS&A PHYSICS & ASTRONOMY - SG		
-----	-----	-----
ADELPHI UNIVERSITY	16,270	
BRIGHAM YOUNG UNIV	53,000	
CALIF INST OF TECH	4,661,614	
CASE WESTERN RESERVE	148,000	
CATHOLIC UNIVERSITY	335,269	
COLUMBIA UNIVERSITY	396,270	
CORNELL UNIVERSITY	1,464,191	
DARTMOUTH COLLEGE	179,905	
DOWLING COLLEGE	3,800	
DUDLEY OBSERVATORY	1,254,248	
GEORGIA INST OF TECH	385,887	
HARVARD UNIVERSITY	6,155,752	

CUMULATIVE 1959 THROUGH JUNE 30, 1970
 WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A PHYSICS & ASTRONOMY - SG	(CONTINUED)	
HAVERFORD COLLEGE	234,518	
INDIANA UNIVERSITY	308,791	
JOHNS HOPKINS UNIV	2,449,418	
LA STATE U-BAT ROUGE	739,543	
MASS INST OF TECH	7,639,955	
MONTANA STATE UNIV	22,600	
NEW YORK UNIVERSITY	75,500	
NO CAROLINA STATE U	131,117	
NORTHWESTERN UNIV	231,940	
PENNSYLVANIA STATE U	2,307,326	
POLY INST BROOKLYN	54,914	
PRINCETON UNIVERSITY	5,573,078	
PURDUE UNIVERSITY	515,068	
RENNSELAER POLY INST	689,882	
RICE UNIVERSITY	2,062,591	
RUTGERS-STATE UNIV	47,740	
STANFORD UNIVERSITY	5,724,975	
STATE U NY-STONY BRK	322,398	
STATE UNIV NY-ALBANY	19,280	
STEVENS INST OF TECH	27,963	
TEMPLE UNIVERSITY	150,000	
UNIV CALIF-BERKELEY	4,689,995	
UNIV CALIF-L ANGELES	1,622,569	
UNIV CALIF-RIVERSIDE	50,000	
UNIV CALIF-S BARBARA	284,297	
UNIV CALIF-S CRUZ	219,814	
UNIV CALIF-SAN DIEGO	3,601,549	
UNIV ILLINOIS-URBANA	3,619,210	
UNIV MARYLAND-BALT	23,500	
UNIV N CAR-CHPL HILL	135,440	
UNIV NEW HAMPSHIRE	2,172,415	
UNIV OF ALASKA	1,128,650	
UNIV OF ARIZONA	3,205,321	
UNIV OF CHICAGO	6,517,938	
UNIV OF CINCINNATI	178,000	
UNIV OF COLORADO	2,127,894	
UNIV OF DENVER	109,000	
UNIV OF FLORIDA	375,818	
UNIV OF GEORGIA	40,000	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A PHYSICS & ASTRONOMY - SG	(CONTINUED)	
-----	-----	-----
UNIV OF HAWAII	4,020,350	
UNIV OF HOUSTON	62,375	
UNIV OF IOWA	4,399,002	
UNIV OF MARYLAND	2,865,296	
UNIV OF MASSACHUSETT	504,007	
UNIV OF MIAMI	62,257	
UNIV OF MICHIGAN	6,178,447	
UNIV OF MINNESOTA	6,091,512	
UNIV OF NEVADA-RENO	205,232	
UNIV OF NEW MEXICO	453,435	
UNIV OF NOTRE DAME	15,180	
UNIV OF OKLAHOMA	22,000	
UNIV OF PENNSYLVANIA	101,091	
UNIV OF PITTSBURGH	941,565	
UNIV OF ROCHESTER	1,010,193	
UNIV OF SOUTHERN CAL	188,735	
UNIV OF TENNESSEE	157,426	
UNIV OF TOLEDO	10,801	
UNIV OF VIRGINIA	106,218	
UNIV OF WASHINGTON	105,000	
UNIV OF WYOMING	6,000	
UNIV TEXAS-AUSTIN	1,119,784	
UNIV TEXAS-DALLAS	3,966,486	
UNIV WI SC-MADISON	2,765,910	
WASHINGTON UNIVERSTY	755,967	
WESLEYAN UNIVERSITY	14,135	
WESTERN STATE COL	95,831	
WOODSTOCK COLLEGE	100,000	
XAVIER UNIV-OHIO	12,856	
YALE UNIVERSITY	744,898	
YESHIVA UNIVERSITY	3,000	111,569,202
HQ - OSS&A MANNED FLT EXPERMNTS - SS		
-----	-----	-----
CALIF INST OF TECH	571,394	
COLUMBIA UNIVERSITY	216,566	
DUDLEY OBSERVATORY	47,250	
HARVARD UNIVERSITY	50,340	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A MANNED FLT EXPERMNTS - SS	(CONTINUED)	
MASS INST OF TECH	619,420	
NORTHWESTERN UNIV	147,045	
OHIO STATE UNIV	180,143	
OREGON STATE UNIV	49,014	
RICE UNIVERSITY	13,783	
STANFORD UNIVERSITY	190,000	
TEXAS TECH COLLEGE	24,474	
UNIV CALIF-BERKELEY	1,704,049	
UNIV CALIF-DAVIS	33,378	
UNIV CALIF-L ANGELES	644,562	
UNIV CALIF-SAN DIEGO	664,605	
UNIV MARYLAND-BALT	40,046	
UNIV OF ARIZONA	88,563	
UNIV OF CHICAGO	62,073	
UNIV OF HOUSTON	109,600	
UNIV OF KANSAS	507,217	
UNIV OF KENTUCKY	30,000	
UNIV OF MARYLAND	60,000	
UNIV OF MIAMI	50,000	
UNIV OF MICHIGAN	377,014	
UNIV OF MINNESOTA	229,859	
UNIV OF NEVADA-RENO	209,658	
UNIV OF SOUTHERN CAL	42,774	
UNIV OF VIRGINIA	13,681	
UNIV WISC-MADISON	76,000	
WASHINGTON UNIVERSTY	40,000	
WOODSHOLE OCEAN INST	64,557	
YALE UNIVERSITY	288,933	7,545,998
HQ - OSS&A BIOSCIENCE PROGRAMS - SB		
AMERICAN UNIVERSITY	24,000	
BAYLOR UNIV MED COL	185,504	
BOSTON COLLEGE	28,000	
BOSTON UNIVERSITY	49,940	
BOWLING GRN STATE U	44,997	
BRANDEIS UNIVERSITY	380,658	
BRYN MAWR COLLEGE	32,492	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A BIOSCIENCE PROGRAMS - SB	(CONTINUED)	
CALIF INST OF TECH	367,609	
CARNEGIE MELLON UNIV	131,368	
CATHOLIC UNIVERSITY	139,806	
COLORADO STATE UNIV	525,265	
CONCORDIA COL-MOORHD	11,419	
CORNELL UNIVERSITY	205,506	
DARTMOUTH COLLEGE	129,389	
DUKE UNIVERSITY	65,060	
EMORY UNIVERSITY	814,711	
FLORIDA STATE UNIV	1,585,760	
FORDHAM UNIVERSITY	6,548	
GEORGE WASHINGTON U	1,180,692	
HARVARD UNIVERSITY	328,797	
HOLLINS COLLEGE	43,859	
INDIANA UNIVERSITY	282,866	
JOHNS HOPKINS UNIV	367,875	
KANSAS STATE UNIV	103,804	
MASS INST OF TECH	3,910,174	
MICHIGAN STATE UNIV	333,773	
MISSISSIPPI STATE U	81,460	
NEW YORK UNIVERSITY	77,269	
NO CAROLINA STATE U	78,627	
NO DAKOTA STATE UNIV	9,000	
OHIO STATE UNIV	367,995	
OKLAHOMA CITY UNIV	411,450	
OREGON STATE UNIV	153,847	
PENNSYLVANIA STATE U	1,238,920	
PRINCETON UNIVERSITY	1,023,115	
PURDUE UNIVERSITY	53,478	
ST JOHNS UNIVERSITY	46,995	
ST LOUIS UNIVERSITY	36,558	
STANFORD UNIVERSITY	3,387,006	
STATE UNIV NY-ALBANY	51,601	
STATE UNIV NY-BUFFAL	741,787	
SYRACUSE UNIVERSITY	51,453	
TEXAS WOMANS UNIV	291,933	
UNIV CALIF-BERKELEY	8,211,057	
UNIV CALIF-DAVIS	722,037	
UNIV CALIF-L ANGELES	1,623,837	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSSEA BIOSCIENCE PROGRAMS - SB	(CONTINUED)	
UNIV CALIF-S BARBARA	70,000	
UNIV CALIF-SAN DIEGO	412,747	
UNIV ILLINOIS-CHICGO	276,000	
UNIV ILLINOIS-URBANA	315,988	
UNIV MARYLAND-BALT	266,489	
UNIV MO-COLUMBIA	407,844	
UNIV MO-KANSAS CITY	67,200	
UNIV MO-ROLLA	8,881	
UNIV N CAR-CHPL HILL	68,503	
UNIV OF ALASKA	227,950	
UNIV OF ARIZONA	200,498	
UNIV OF CHICAGO	1,969,157	
UNIV OF COLORADO	102,504	
UNIV OF DETROIT	146,760	
UNIV OF FLORIDA	34,612	
UNIV OF GEORGIA	69,900	
UNIV OF HAWAII	201,378	
UNIV OF HOUSTON	608,833	
UNIV OF IOWA	62,659	
UNIV OF KANSAS	138,449	
UNIV OF KENTUCKY	1,310,737	
UNIV OF LOUISVILLE	30,115	
UNIV OF MARYLAND	2,045,660	
UNIV OF MASSACHUSETT	81,440	
UNIV OF MIAMI	1,213,695	
UNIV OF MICHIGAN	225,406	
UNIV OF MINNESOTA	1,980,793	
UNIV OF NEVADA-RENO	65,556	
UNIV OF NOTRE DAME	232,097	
UNIV OF PENNSYLVANIA	291,491	
UNIV OF PITTSBURGH	702,863	
UNIV OF ROCHESTER	882,781	
UNIV OF SO CAROLINA	2,545	
UNIV OF SOUTHERN CAL	684,626	
UNIV OF UTAH	14,041	
UNIV OF VIRGINIA	189,795	
UNIV TEX-SW MED SCHL	452,078	
UNIV WISC-MADISON	103,078	
UTAH STATE UNIV	130,806	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A BIOSCIENCE PROGRAMS - SB	(CONTINUED)	
WASHINGTON STATE U	59,687	
WESTERN MICHIGAN U	26,389	
WOODSHOLE OCEAN INST	183,000	
YALE UNIVERSITY	1,106,481	47,610,809
HQ - OSS&A EARTH OBSERVATIONS - SR		
COLORADO SCH OF MINE	107,000	
COLORADO STATE UNIV	54,982	
MARQUETTE UNIVERSITY	9,668	
MASS INST OF TECH	33,458	
NEW MEXICO STATE U	23,116	
NEW YORK UNIVERSITY	59,629	
PURDUE UNIVERSITY	300,000	
SAN JOSE STATE COL	36,929	
STANFORD UNIVERSITY	78,339	
SYRACUSE UNIVERSITY	47,000	
UNIV CALIF-L ANGELES	44,060	
UNIV MO-KANSAS CITY	24,700	
UNIV NEW HAMPSHIRE	25,000	
UNIV OF COLORADO	25,000	
UNIV OF HAWAII	71,788	
UNIV OF KANSAS	12,050	
UNIV OF MIAMI	36,585	
UNIV OF NEVADA-RENO	23,750	
UNIV OF PENNSYLVANIA	84,531	
UNIV OF SO FLORIDA	85,455	
UNIV TEXAS-AUSTIN	49,700	
UNIV TEXAS-DALLAS	125,000	
UNIV WISC-MADISON	284,050	
WORCESTER POLY INST	25,000	1,666,790
HQ - OMSF APOLLO PROGRAM - MA		
COLUMBIA UNIVERSITY	45,000	
FLORIDA STATE UNIV	6,400	
MASS INST OF TECH	80,000	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OMSF APOLLO PROGRAM - MA	(CONTINUED)	
PRINCETON UNIVERSITY	11,500	
UNIV CALIF-BERKELEY	20,240	
UNIV CALIF-L ANGELES	75,741	
UNIV CALIF-SAN DIEGO	79,888	
UNIV OF ARIZONA	40,000	
UNIV OF MARYLAND	50,000	
UNIV OF MINNESOTA	55,000	
UNIV TEXAS-AUSTIN	2,000	
YALE UNIVERSITY	50,000	515,769
HQ - OMSF MISSION OPERATIONS - MO		
PENNSYLVANIA STATE U	33,490	33,490
HQ - OMSF APOLLO APPLICATIONS - ML		
CORNELL UNIVERSITY	115,049	
HARVARD UNIVERSITY	22,000	
MASS INST OF TECH	1,173,000	
UNIV OF MINNESOTA	95,416	1,405,465
HQ - OMSF SPACE STATION - MF		
CALIF INST OF TECH	149,742	
UNIV CALIF-BERKELEY	395,787	
UNIV CALIF-L ANGELES	55,140	
UNIV OF HAWAII	52,742	
UNIV OF MINNESOTA	47,000	
UNIV OF SOUTHERN CAL	99,615	
UNIV TEX-SW MED SCHL	16,000	
WASHINGTON UNIVERSTY	330	816,356
HQ - OMSF ADV MANNED MISSIONS - MT		
BAYLOR UNIVERSITY	5,625	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OMSF ADV MANNED MISSIONS - MT	(CONTINUED)	
CALIF INST OF TECH	49,913	
CASE WESTERN RESERVE	60,000	
EMORY UNIVERSITY	100,000	
HARVARD UNIVERSITY	139,557	
JOHNS HOPKINS UNIV	76,000	
MASS INST OF TECH	312,537	
NORTHWESTERN UNIV	118,887	
OHIO STATE UNIV	345,359	
PRINCETON UNIVERSITY	346,000	
PURDUE UNIVERSITY	224,998	
UNIV CALIF-BERKELEY	808,257	
UNIV CALIF-L ANGELES	575,450	
UNIV CALIF-SAN DIEGO	164,714	
UNIV OF ARIZONA	195,316	
UNIV OF HAWAII	24,847	
UNIV OF KANSAS	230,451	
UNIV OF MARYLAND	45,000	
UNIV OF MICHIGAN	100,000	
UNIV OF MINNESOTA	63,149	
UNIV OF SOUTHERN CAL	193,000	
UNIV OF VIRGINIA	4,819	
UNIV TEXAS-AUSTIN	91,856	
WASHINGTON UNIVERSTY	120,741	4,396,476
HQ - OMSF GEMINI,MERCURY - MR		
HARVARD UNIVERSITY	8,333	
UNIV CALIF-L ANGELES	149,202	
UNIV OF ARIZONA	32,023	
UNIV OF MICHIGAN	29,456	
UNIV OF WASHINGTON	15,270	
VIRGINIA COMNWLTU	10,000	244,284
AMES RESEARCH CTR		
ARTIZONA STATE UNIV	33,186	
BAYLOR UNIVERSITY	85,861	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
AMES RESEARCH CTR		(CONTINUED)
BOWLING GRN STATE U	255,575	
BRADLEY UNIVERSITY	8,111	
CALIF INST OF TECH	122,715	
CHICO STATE COLLEGE	6,526	
CITY COLLEGE OF N Y	7,989	
CLARKSON COL OF TECH	40,029	
CLEMSON UNIVERSITY	26,702	
COLORADO STATE UNIV	400,774	
COLUMBIA UNIVERSITY	117,261	
CORNELL UNIVERSITY	102,550	
DARTMOUTH COLLEGE	27,845	
DUDLEY OBSERVATORY	38,000	
EMORY UNIVERSITY	291,800	
FAIRFIELD UNIVERSITY	850	
FLORIDA SOUTHERN COL	26,785	
GEorgetown UNIV	40,247	
GEORGIA INST OF TECH	40,616	
HARVARD UNIVERSITY	445,787	
HOWARD UNIVERSITY	317,573	
INDIANA UNIVERSITY	18,000	
IOWA STATE UNIV	21,367	
JOHNS HOPKINS UNIV	89,950	
KANSAS STATE UNIV	193,574	
MASS INST OF TECH	951,228	
NEW MEXICO STATE U	13,854	
NEW YORK MEDICAL COL	7,090	
NO CAROLINA STATE U	27,072	
OHIO STATE UNIV	189,219	
OKLAHOMA STATE UNIV	66,410	
PENNSYLVANIA STATE U	28,778	
POLY INST BROOKLYN	55,983	
PRINCETON UNIVERSITY	101,459	
PURDUE UNIVERSITY	30,990	
RICE UNIVERSITY	239,793	
S FRANCISC STATE COL	26,823	
SAN JOSE STATE COL	237,235	
SOUTHERN ILLINOIS U	63,399	
ST JOSEPHS COL-CONN	5,500	
ST U NY-DNST MED CTR	4,350	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
AMES RESEARCH CTR		(CONTINUED)
STANFORD UNIVERSITY	6,305,573	
TEXAS CHRISTIAN UNIV	341,017	
TEXAS WOMANS UNIV	251,754	
U ARKANSAS-MEDL CNTR	57,495	
U COLORADO-DENV MEDL	10,000	
UNIV CALIF-BERKELEY	10,603,540	
UNIV CALIF-DAVIS	1,121,094	
UNIV CALIF-L ANGELES	993,853	
UNIV CALIF-S BARBARA	148,853	
UNIV CALIF-S CRUZ	44,274	
UNIV CALIF-SAN DIEGO	960,953	
UNIV CALIF-SAN FRAN	225,945	
UNIV ILLINOIS-CHICGO	93,890	
UNIV ILLINOIS-URBANA	163,718	
UNIV MISS-MEDL CNTR	86,158	
UNIV MO-COLUMBIA	72,000	
UNIV MO-ROLLA	105,659	
UNIV NEW HAMPSHIRE	111,000	
UNIV OF ARIZONA	296,713	
UNIV OF CHICAGO	1,218,122	
UNIV OF CINCINNATI	44,034	
UNIV OF DENVER	42,991	
UNIV OF HAWAII	258,599	
UNIV OF IOWA	314,743	
UNIV OF KANSAS	20,430	
UNIV OF KENTUCKY	150,000	
UNIV OF LOUISVILLE	188,125	
UNIV OF MARYLAND	187,547	
UNIV OF MICHIGAN	316,316	
UNIV OF MINNESOTA	3,491,294	
UNIV OF NOTRE DAME	45,000	
UNIV OF OKLAHOMA	4,056	
UNIV OF OREGON	108,972	
UNIV OF PENNSYLVANIA	554,730	
UNIV OF ROCHESTER	80,167	
UNIV OF SANTA CLARA	205,618	
UNIV OF SOUTHERN CAL	1,815,443	
UNIV OF ST THOMAS	171,172	
UNIV OF UTAH	66,477	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION
AND INSTITUTIONINSTITUTION
OBLIGATIONS FUNDING ORG
 SUB-TOTALS

AMES RESEARCH CTR

(CONTINUED)

UNIV OF VERMONT	25,000
UNIV OF VIRGINIA	431,200
UNIV OF WASHINGTON	174,943
UNIV OREGON-MEDL SCH	122,198
UNIV SAN FRANCISCO	214,441
UNIV TEX-BIOMED GRAD	171,970
UNIV TEX-SW MED SCHL	685,475
UNIV TEXAS-DALLAS	2,860,969
UNIV WISC-MADISON	289,086
UTAH STATE UNIV	71,015
VILLANOVA UNIVERSITY	47,287
VIRGINIA POLY INST	13,425
WASHINGTON UNIVERSTY	182,060
WEST VIRGINIA UNIV	209,950
WICHITA STATE UNIV	23,746
WORCESTER POLY INST	182,769
YALE UNIVERSITY	140,612
YESHIVA UNIVERSITY	247,797 42,180,124

LEWIS RESEARCH CTR

ALFRED UNIVERSITY	17,634
AMFRICAN UNIVERSITY	99,997
BROWN UNIVERSITY	345,231
CAL STATE COL-LG BCH	23,183
CALIF INST OF TECH	125,325
CARNEGIE MELLON UNIV	29,670
CASE WESTERN RESERVE	960,100
CATHOLIC UNIVERSITY	11,984
CHICO STATE COLLEGE	13,825
CITY COLLEGE OF N Y	168,607
CLEMSON UNIVERSITY	44,083
CLEVELAND STATE UNIV	70,000
COLORADO STATE UNIV	301,279
CORNELL UNIVERSITY	256,189
DREXEL UNIVERSITY	195,774
FLORIDA STATE UNIV	10,562
GEORGIA INST OF TECH	369,259

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
LEWIS RESEARCH CTR		(CONTINUED)
HARVARD UNIVERSITY	44,809	
HIRAM COLLEGE	119,466	
ILL INST OF TECH	153,510	
IOWA STATE UNIV	45,000	
JOHN CARROLL UNIV	115,806	
KENT STATE UNIV	127,598	
LFHIGH UNIVERSITY	62,962	
LINFIELD COLLEGE	25,783	
MASS INST OF TECH	759,621	
MICHIGAN STATE UNIV	70,860	
MICHIGAN TECH UNIV	31,158	
NEW YORK UNIVERSITY	33,753	
NFWARK COLLEGE ENGRG	178,556	
NORTHWESTERN UNIV	48,920	
PENNSYLVANIA STATE U	521,062	
PRINCETON UNIVERSITY	2,306,526	
PURDUE UNIVERSITY	101,919	
RENSSFLAER POLY INST	136,780	
STANFORD UNIVERSITY	1,291,503	
STATE U NY-STONY BRK	38,000	
SYRACUSE UNIVERSITY	284,703	
TEMPLE UNIVERSITY	57,106	
TEXAS A&M UNIVERSITY	28,950	
TULANE UNIVERSITY	25,570	
UNION COLLEGE	20,000	
UNIV CALIF-BERKELEY	467,020	
UNIV ILLINOIS-URBANA	377,460	
UNIV OF ARIZONA	316,781	
UNIV OF CINCINNATI	294,659	
UNIV OF CONNECTICUT	167,925	
UNIV OF DENVER	84,823	
UNIV OF FLORIDA	227,473	
UNIV OF KENTUCKY	97,651	
UNIV OF MICHIGAN	797,776	
UNIV OF MINNESOTA	620,674	
UNIV OF PITTSBURGH	107,166	
UNIV OF SOUTHERN CAL	3,300	
UNIV OF TENNESSEE	143,437	
UNIV OF UTAH	32,058	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
LEWIS RESEARCH CTR	(CONTINUED)	
UNIV OF VIRGINIA	175,113	
UNIV WISC-MADISON	39,960	
VANDERBILT UNIVERSTY	40,651	13,666,550
LANGLEY RESEARCH CTR		
ARIZONA STATE UNIV	13,775	
BRADLEY UNIVERSITY	14,945	
BRANDEIS UNIVERSITY	125,475	
BROWN UNIVERSITY	35,402	
CALIF INST OF TECH	40,000	
CARNEGIE MELLON UNIV	197,318	
CASE WESTERN RESERVE	249,778	
CITY COLLEGE OF N Y	129,746	
CLARKSON COL OF TECH	65,610	
CLEMSON UNIVERSITY	78,921	
COLLEGE OF WM & MARY	1,336,672	
COLUMBIA UNIVERSITY	230,415	
CORNELL UNIVERSITY	226,340	
DREXEL UNIVERSITY	117,883	
EAST TENN STATE UNIV	20,350	
EMORY UNIVERSITY	153,000	
FLORIDA STATE UNIV	20,000	
FLORIDA TECH UNIV	19,164	
GEORGE WASHINGTON U	606,831	
GEorgetown UNIV	302,981	
GEORGIA INST OF TECH	455,926	
HAMPTON INSTITUTE	257,809	
HARVARD UNIVERSITY	330,372	
INDIANA UNIVERSITY	30,000	
KENT STATE UNIV	13,908	
LA STATE U-BAT ROUGE	360,237	
LEHIGH UNIVERSITY	366,810	
LOWELL TECH INST	30,875	
MARQUETTE UNIVERSITY	59,430	
MASS INST OF TECH	4,342,090	
MISSISSIPPI STATE U	163,820	
MONTANA STATE UNIV	17,314	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
LANGLEY RESEARCH CTR		(CONTINUED)

NEW YORK UNIVERSITY	1,350,180	
NO CAROLINA STATE U	1,625,804	
NORTHEASTERN UNIV	30,000	
NORTHWESTERN UNIV	76,611	
OHIO STATE UNIV	577,225	
OKLAHOMA STATE UNIV	119,832	
OLD DOMINION UNIV	830,477	
PENNSYLVANIA STATE U	502,279	
PRINCETON UNIVERSITY	721,817	
PURDUE UNIVERSITY	184,018	
RENSSELAER POLY INST	993,149	
RENSSELAER POLY-CONN	101,600	
RICE UNIVERSITY	73,090	
ROSE POLYTECHNIC	9,139	
PUTGERS-STATE UNIV	106,391	
SO DAKOTA STATE UNIV	32,266	
SOUTHERN ILLINOIS U	20,490	
ST LOUIS UNIVERSITY	270,414	
STANFORD UNIVERSITY	275,027	
STEVENS INST OF TECH	262,238	
SYRACUSE UNIVERSITY	171,846	
TEMPLE UNIVERSITY	426,280	
TENNESSEE TECH U	63,081	
TEXAS A&M UNIVERSITY	396,107	
TEXAS CHRISTIAN UNIV	117,722	
TEXAS TECH COLLEGE	99,925	
UNIV ARKANSAS-FAYETV	23,902	
UNIV CALIF-L ANGELES	273,307	
UNIV CALIF-S BARBARA	41,695	
UNIV CALIF-SAN DIEGO	179,321	
UNIV ILLINOIS-CHICGO	21,957	
UNIV ILLINOIS-URBANA	101,208	
UNIV MO-COLUMBIA	33,162	
UNIV MO-KANSAS CITY	42,870	
UNIV MO-ROLLA	4,423	
UNIV OF AKRON	4,000	
UNIV OF CINCINNATI	163,399	
UNIV OF DELAWARE	15,000	
UNIV OF DENVER	125,662	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
LANGLEY RESEARCH CTR		(CONTINUED)
UNIV OF FLORIDA	67,932	
UNIV OF GEORGIA	18,501	
UNIV OF HOUSTON	45,000	
UNIV OF IOWA	4,593,773	
UNIV OF KANSAS	230,359	
UNIV OF MARYLAND	28,000	
UNIV OF MICHIGAN	864,984	
UNIV OF MINNESOTA	103,160	
UNIV OF NEW MEXICO	52,785	
UNIV OF OKLAHOMA	94,714	
UNIV OF PENNSYLVANIA	60,858	
UNIV OF PITTSBURGH	84,022	
UNIV OF RICHMOND	10,280	
UNIV OF ROCHESTER	136,488	
UNIV OF SOUTHERN CAL	24,425	
UNIV OF TENNESSEE	158,780	
UNIV OF UTAH	453,819	
UNIV OF VIRGINIA	2,197,775	
UNIV OF WASHINGTON	389,552	
UNIV OF WYOMING	313,801	
UNIV TEXAS-AUSTIN	234,234	
UNIV TEXAS-DALLAS	15,000	
VANDERBILT UNIVERSTY	73,180	
VILLANOVA UNIVERSITY	57,040	
VIRGINIA COMMNLTH U	961,429	
VIRGINIA POLY INST	577,644	
WASHINGTON UNIVERSTY	20,000	
WEST VIRGINIA UNIV	17,956	
WICHITA STATE UNIV	116,719	32,882,321
FLIGHT RESEARCH CTR		
MISSISSIPPI STATE U	75,700	
TEXAS A&M UNIVERSITY	69,531	
UNIV CALIF-L ANGELES	184,416	
UNIV OF COLORADO	116,028	
UNIV OF SOUTHERN CAL	7,000	
UNIV OREGON-MEDL SCH	10,050	462,725

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
ELECTRONICS RES CTR		
-----	-----	-----
AMERICAN UNIVERSITY	30,000	
ARIZONA STATE UNIV	54,701	
ARKANSAS STATE UNIV	35,000	
AUBURN UNIVERSITY	116,055	
BOSTON UNIVERSITY	25,918	
BROWN UNIVERSITY	550,569	
CALIF INST OF TECH	154,319	
CARNEGIE MELLON UNIV	77,293	
CASE WESTERN RESERVE	485,001	
CITY COLLEGE OF N Y	35,000	
COLORADO STATE UNIV	87,295	
COLUMBIA UNIVERSITY	214,081	
CORNELL UNIVERSITY	376,923	
DREXEL UNIVERSITY	32,057	
FAIRLEIGH-DICKINSON U	12,000	
FORSYTH DENTAL CNTR	70,113	
GEORGE WASHINGTON U	14,865	
GEORGIA INST OF TECH	10,000	
HARVARD UNIVERSITY	1,119,254	
ILL INST OF TECH	24,735	
JOHNS HOPKINS UNIV	32,704	
LEHIGH UNIVERSITY	14,950	
LOWELL TECH INST	1,031,487	
MASS INST OF TECH	13,728,207	
NE LOUISIANA UNIV	76,524	
NEW YORK UNIVERSITY	50,000	
NFWARK COLLEGE ENGRG	15,000	
NO CAROLINA STATE U	15,000	
NORTHEASTERN UNIV	767,991	
NORTHWESTERN UNIV	32,356	
OAKLAND UNIVERSITY	50,000	
OHIO STATE UNIV	362,552	
OHIO UNIVERSITY	24,277	
POLY INST BROOKLYN	363,695	
PRINCETON UNIVERSITY	100,151	
PROVIDENCE COLLEGE	10,000	
PURDUE UNIVERSITY	79,800	
RENSSELAER POLY INST	41,000	
RUTGERS-STATE UNIV	22,154	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
ELECTRONICS RES CTR	(CONTINUED)	
SO DAKOTA STATE UNIV	6,262	
SOUTHERN METHODIST U	119,745	
STANFORD UNIVERSITY	1,599,149	
STATE U NY-STONY BRK	64,579	
STEVENS INST OF TECH	168,229	
SUFFOLK UNIVERSITY	19,762	
SYRACUSE UNIVERSITY	15,480	
TUFTS UNIVERSITY	28,725	
TULANE UNIVERSITY	60,499	
UNIV ARKANSAS-FAYETV	14,999	
UNIV CALIF-BERKELEY	179,000	
UNIV CALIF-DAVIS	28,881	
UNIV CALIF-L ANGELES	268,810	
UNIV CALIF-RIVERSIDE	20,000	
UNIV CALIF-S BARBARA	14,859	
UNIV CALIF-S CRUZ	50,000	
UNIV CALIF-SAN DIEGO	252,000	
UNIV ILLINOIS-URBANA	160,000	
UNIV MO-COLUMBIA	47,522	
UNIV MO-KANSAS CITY	155,783	
UNIV N CAR-CHPL HILL	55,000	
UNIV NEW HAMPSHIRE	212,839	
UNIV OF COLORADO	81,427	
UNIV OF DENVER	24,858	
UNIV OF FLORIDA	118,298	
UNIV OF HAWAII	86,944	
UNIV OF KANSAS	100,000	
UNIV OF MARYLAND	50,201	
UNIV OF MASSACHUSETT	102,029	
UNIV OF MIAMI.	94,100	
UNIV OF MICHIGAN	298,200	
UNIV OF NEW MEXICO	80,349	
UNIV OF NOTRE DAME	10,000	
UNIV OF PENNSYLVANIA	85,395	
UNIV OF SANTA CLARA	30,000	
UNIV OF SOUTHERN CAL	138,109	
UNIV OF TENNESSEE	75,000	
UNIV OF VERMONT	40,220	
UNIV OF VIRGINIA	20,000	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
ELECTRONICS RES CTR		(CONTINUED)
UNIV OF WASHINGTON	30,000	
UNIV TEXAS-AUSTIN	298,655	
VANDERRILT UNIVERSTY	68,657	
VIRGINIA COMNWLT H	136,000	
VIRGINIA POLY INST	29,666	
WOODSHOLE OCEAN INST	450,000	
WORCESTER POLY INST	25,000	26,358,258
GODDARD SPAC FLT CTR		
AMFRICAN UNIVERSITY	127,448	
BOWIE STATE COLLEGE	20,590	
BRANDEIS UNIVERSITY	28,875	
BRIGHAM YOUNG UNIV	22,445	
BROWN UNIVERSITY	28,073	
CALIF INST OF TECH	1,160,800	
CARNEGIE MELLON UNIV	33,182	
CASE WESTERN RESERVE	222,365	
CATHOLIC UNIVERSITY	191,120	
CITY COLLEGE OF N Y	105,000	
COL OF HOLY CROSS	143,072	
COLLEGE OF WM & MARY	36,925	
COLORADO STATE UNIV	898,914	
COLUMBIA UNION COL	19,024	
COLUMBIA UNIVERSITY	859,392	
DARTMOUTH COLLEGE	1,560,798	
DELAWARE STATE COL	550	
DUKE UNIVERSITY	691,597	
FAIRFIELD UNIVERSITY	52,443	
FLORIDA STATE UNIV	14,832	
FLORIDA TECH UNIV	18,306	
GEORGF WASHINGTON U	652,020	
HARVARD UNIVERSITY	7,188,748	
HOWARD UNIVERSITY	155,284	
ILL INST OF TECH	99,900	
IOWA STATE UNIV	945,700	
JOHNS HOPKINS UNIV	433,263	
LEHIGH UNIVERSITY	2,830	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
GODDARD SPAC FLT CTR		(CONTINUED)
MASS INST OF TECH	11,710,313	
NEW MEX INST MINING	40,100	
NEW MEXICO STATE U	12,930,548	
NEW YORK UNIVERSITY	1,019,945	
NO CAROLINA STATE U	249,803	
NORTHEASTERN UNIV	60,698	
NORTHWESTERN UNIV	109,718	
OHIO STATE UNIV	219,992	
OKLAHOMA STATE UNIV	506,392	
OLD DOMINION UNIV	25,000	
PAN AMERICAN COLLEGE	61,000	
PENNSYLVANIA STATE U	96,271	
POLY INST BROOKLYN	49,429	
PRINCETON UNIVERSITY	13,497,359	
PURDUE UNIVERSITY	75,000	
RENSSELAER POLY INST	53,560	
RICE UNIVERSITY	577,980	
ROSE POLYTECHNIC	38,153	
RUTGERS-STATE UNIV	1,835,607	
SDAKOTA SCHL MINES	30,880	
SOUTHERN METHODIST U	71,651	
STANFORD UNIVERSITY	3,389,823	
SYRACUSE UNIVERSITY	29,506	
TEMPLE UNIVERSITY	697,200	
TEXAS A&M UNIVERSITY	16,000	
UNIV ARKANSAS-LTL RK	70,638	
UNIV CALIF-BERKELEY	4,155,239	
UNIV CALIF-DAVIS	27,802	
UNIV CALIF-L ANGELES	3,949,303	
UNIV CALIF-RIVERSIDE	71,350	
UNIV CALIF-S BARBARA	62,215	
UNIV CALIF-SAN DIEGO	5,402,065	
UNIV ILLINOIS-URBANA	89,074	
UNIV MO-COLUMBIA	67,130	
UNIV N CAR-CHPL HILL	3,000	
UNIV NEW HAMPSHIRE	3,379,125	
UNIV OF ALASKA	5,818,185	
UNIV OF ARIZONA	840,326	
UNIV OF CHICAGO	7,012,076	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
GODDARD SPAC FLT CTR		(CONTINUED)

UNIV OF CINCINNATI	42,943	
UNIV OF COLORADO	2,351,598	
UNIV OF DELAWARE	53,964	
UNIV OF DENVER	87,600	
UNIV OF FLORIDA	14,382	
UNIV OF HAWAII	10,000	
UNIV OF IOWA	4,123,327	
UNIV OF MARYLAND	3,681,356	
UNIV OF MASSACHUSETT	98,278	
UNIV OF MICHIGAN	16,991,195	
UNIV OF MINNESOTA	3,323,855	
UNIV OF NEW MEXICO	1,780,227	
UNIV OF NORTH DAKOTA	38,470	
UNIV OF NOTRE DAME	182,392	
UNIV OF PENNSYLVANIA	277,856	
UNIV OF PITTSBURGH	416,010	
UNIV OF PUERTO RICO	59,500	
UNIV OF ROCHESTER	1,130,408	
UNIV OF SO FLORIDA	58,883	
UNIV OF SOUTHERN CAL	72,462	
UNIV OF WASHINGTON	57,600	
UNIV OF WYOMING	263,000	
UNIV TEXAS-AUSTIN	293,291	
UNIV TEXAS-DALLAS	3,711,175	
UNIV TEXAS-EL PASO	488,476	
UNIV WISC-MADISON	7,658,543	
WEST VIRGINIA UNIV	53,582	
WOODSTOCK COLLEGE	7,000	
YALE UNIVERSITY	618,572	
YESHIVA UNIVERSITY	172,000	142,170,897
WALLOPS STATION		

PRINCETON UNIVERSITY	24,730	
RICE UNIVERSITY	4,862,177	
UNIV OF ALASKA	43,000	
UNIV OF VIRGINIA	75,133	
UNIV TEXAS-EL PASO	74,609	5,079,649

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MARSHALL SPACFLT CTR		
-----	-----	-----
ALABAMA A&M COLLEGE	29,093	
ARIZONA STATE UNIV	22,061	
AUBURN UNIVERSITY	4,968,092	
BROWN UNIVERSITY	85,377	
CALIF INST OF TECH	173,494	
CARNEGIE MELLON UNIV	106,130	
CASE WESTERN RESERVE	21,067	
CLARK UNIVERSITY	14,881	
CLEMSON UNIVERSITY	84,890	
COLORADO SCH OF MINE	30,357	
COLORADO STATE UNIV	339,563	
COLUMBIA UNIVERSITY	305,080	
DREXEL UNIVERSITY	59,029	
DUDLEY OBSERVATORY	200,373	
FLORIDA STATE UNIV	45,920	
GEORGE WASHINGTON U	12,112	
GEORGIA INST OF TECH	1,833,372	
HARVARD UNIVERSITY	19,331,758	
INDIANA UNIVERSITY	15,825	
IOWA STATE UNIV	14,770	
JOHNS HOPKINS UNIV	87,069	
LA STATE U-BAT ROUGE	402,270	
MASS INST OF TECH	782,956	
MEMPHIS STATE UNIV	4,962	
MISSISSIPPI STATE U	881,168	
NE LOUISIANA UNIV	71,151	
NEWARK COLLEGE ENGRG	22,631	
NO CAROLINA STATE U	12,279	
NORTHWESTERN UNIV	223,146	
OHIO STATE UNIV	179,945	
OHIO UNIVERSITY	127,977	
OKLAHOMA STATE UNIV	695,773	
PENNSYLVANIA STATE U	178,396	
PRINCETON UNIVERSITY	336,475	
PURDUE UNIVERSITY	421,316	
RENSSELAER POLY INST	196,947	
SOUTHERN METHODIST U	33,476	
STANFORD UNIVERSITY	72,011	
SYRACUSE UNIVERSITY	54,976	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MARSHALL SPACFLT CTR		(CONTINUED)
TEXAS A&M UNIVERSITY	100,869	
TEXAS CHRISTIAN UNIV	80,000	
TEXAS TECH COLLEGE	15,000	
TULANE UNIVERSITY	611,627	
UNIV ALA-HUNTSVILLE	787,693	
UNIV ALA-TUSCALOOSA	3,666,390	
UNIV ARKANSAS-FAYETV	37,010	
UNIV CALIF-BERKELEY	1,036,636	
UNIV CALIF-L ANGELES	54,230	
UNIV CALIF-SAN DIEGO	252,732	
UNIV ILLINOIS-URBANA	85,532	
UNIV N CAR-CHPL HILL	90,345	
UNIV OF ARIZONA	154,145	
UNIV OF CHICAGO	99,398	
UNIV OF DENVER	65,125	
UNIV OF FLORIDA	150,609	
UNIV OF GEORGIA	384,010	
UNIV OF KANSAS	4,990	
UNIV OF KENTUCKY	71,593	
UNIV OF MICHIGAN	2,522,972	
UNIV OF MINNESOTA	25,794	
UNIV OF NOTRE DAME	40,193	
UNIV OF OKLAHOMA	59,856	
UNIV OF PITTSBURGH	19,659	
UNIV OF SOUTHERN CAL	107,924	
UNIV OF ST THOMAS	88,417	
UNIV OF TENNESSEE	567,176	
UNIV OF UTAH	15,980	
UNIV OF VIRGINIA	23,500	
UNIV OF WYOMING	19,921	
UNIV TEXAS-AUSTIN	149,676	
UNIV WISC-MADISON	807,116	
VANDERBILT UNIVERSTY	313,684	
VIRGINIA POLY INST	69,102	
WASHINGTON STATE U	139,050	
WASHINGTON UNIVERSTY	14,971	
WAYNE STATE UNIV	86,138	45,297,331

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MANNED SPACECRFT CTR		
ALBANY MED COLLEGE	236,446	
ARIZONA STATE UNIV	22,663	
BAYLOR UNIV MED COL	1,766,420	
BAYLOR UNIVERSITY	324,013	
BISHOP COLLEGE	18,830	
BOSTON UNIVERSITY	80,000	
CALIF INST OF TECH	956,962	
CARNEGIE MELLON UNIV	115,400	
CASE WESTERN RESERVE	488,101	
CENTENARY COLLEGE	36,500	
CLEMSON UNIVERSITY	30,000	
COLLEGE VIRGIN ISLND	37,340	
COLORADO STATE UNIV	30,000	
COLUMBIA UNIVERSITY	2,192,981	
CORNELL UNIVERSITY	258,533	
DUDLEY OBSERVATORY	396,496	
FLORIDA STATE UNIV	10,000	
FORDHAM UNIVERSITY	301,044	
GEORGIA INST OF TECH	137,669	
GRAMBLING COLLEGE	26,980	
HARDING COLLEGE	182,214	
HARVARD UNIVERSITY	582,176	
HOUSTON BAPTIST COL	40,100	
HUMBOLDT STATE COL	15,965	
ILL INST OF TECH	44,837	
INDIANA UNIVERSITY	336,020	
JOHNS HOPKINS UNIV	60,000	
LA STATE U-BAT ROUGE	148,415	
LA STATE U-NEW ORLNS	24,746	
LA STATE U-SHREVEPT	14,260	
LAMAR STATE COL TECH	32,058	
LEHIGH UNIVERSITY	77,300	
LONG ISLAND UNIV	198,399	
LOUISIANA POLY INST	28,087	
MASS INST OF TECH	146,637,709	
MISSISSIPPI STATE U	90,000	
NEW JERSEY COL MED	170,216	
NEW MEX INST MINING	2,998	
NEW MEXICO STATE U	233,585	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MANNED SPACECRFT CTR		(CONTINUED)
NO CAROLINA STATE U	103,473	
NO TEXAS STATE UNIV	41,262	
NORTHWESTERN UNIV	2,145,384	
OHIO STATE UNIV	245,266	
OKLAHOMA STATE UNIV	111,250	
OREGON STATE UNIV	148,640	
PENNSYLVANIA STATE U	31,817	
PRINCETON UNIVERSITY	98,566	
PURDUE UNIVERSITY	125,093	
RICE UNIVERSITY	6,136,045	
SAN DIEGO STATE COL	24,418	
SETON HALL UNIV	166,365	
SOUTHERN METHODIST U	713,898	
ST LOUIS UNIVERSITY	49,860	
STANFORD UNIVFRSITY	991,093	
STATE U NY-A&T-ALFRD	32,500	
STATE U NY-STONY BRK	1,026,259	
TENNESSEE TFCH U	92,365	
TEXAS A&I UNIVERSITY	11,463	
TEXAS A&M UNIVERSITY	1,448,392	
TEXAS SOUTHERN UNIV	78,433	
TEXAS TECH COLLEGE	151,209	
TEXAS WOMANS UNIV	350,110	
TUFTS UNIVERSITY	97,355	
UNIV CALIF-BERKELEY	7,295,955	
UNIV CALIF-DAVIS	168,052	
UNIV CALIF-L ANGELES	1,013,226	
UNIV CALIF-S BARBARA	26,575	
UNIV CALIF-S CRUZ	96,448	
UNIV CALIF-SAN DIEGO	754,938	
UNIV CALIF-SAN FRAN	206,111	
UNIV MO-COLUMBIA	128,665	
UNIV N CAR-CHPL HILL	6,129	
UNIV NEBRASKA-LINCLN	20,000	
UNIV OF ALASKA	535,089	
UNIV OF ARIZONA	402,871	
UNIV OF CHICAGO	666,594	
UNIV OF CONNECTICUT	73,000	
UNIV OF DENVER	183,801	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MANNED SPACECRFT CTR	(CONTINUED)	

UNIV OF HAWAII	2,000	
UNIV OF HOUSTON	2,501,776	
UNIV OF IDAHO	24,328	
UNIV OF IOWA	38,270	
UNIV OF KANSAS	565,000	
UNIV OF KENTUCKY	217,000	
UNIV OF MARYLAND	2,079,242	
UNIV OF MIAMI	162,500	
UNIV OF MICHIGAN	2,329,983	
UNIV OF MINNESOTA	764,524	
UNIV OF NEVADA-RENO	313,085	
UNIV OF NEW MEXICO	88,490	
UNIV OF OREGON	639,714	
UNIV OF PENNSYLVANIA	34,831	
UNIV OF PITTSBURGH	56,000	
UNIV OF SOUTHERN CAL	152,849	
UNIV OF TOLEDO	9,453	
UNIV OF UTAH	20,013	
UNIV OF VIRGINIA	30,622	
UNIV OF WASHINGTON	34,837	
UNIV TEX-ANDRSN HOSP	450,000	
UNIV TEX-BIOMED GRAD	226,100	
UNIV TEX-DENTAL BRCH	115,000	
UNIV TEXAS-ARLINGTON	3,585	
UNIV TEXAS-AUSTIN	906,943	
UNIV TEXAS-DALLAS	1,922,002	
UNIV TEXAS-EL PASO	17,130	
UNIV TEXAS-GALVESTON	253,872	
UNIV WISC-MADISON	235,322	
WASHINGTON UNIVERSTY	506,500	
WESLEYAN UNIVERSITY	103,593	
YALE UNIVERSITY	371,100	
YESHIVA UNIVERSITY	117,677	197,676,774
KENNEDY SPACE CENTER		

FLA INST CONT U STUD	89,210	
FLORIDA INST OF TECH	151,504	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
KENNEDY SPACE CENTER	(CONTINUED)	

GEORGIA INST OF TECH	74,382	
NEW MEXICO STATE U	1,812,481	
UNIV OF DENVER	10,946	
UNIV OF FLORIDA	466,089	
UNIV OF MIAMI	108,460	2,713,072
GRAND TOTAL		1,049,766,324

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS
BY FUNDING INSTALLATION AND UNIQUE PROJECT

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
NASA HEADQUARTERS			
000	MISCELLANEOUS RESEARCH	3,243,671	
104	PROPULSION TECHNOLOGY	346,000	
120	POWER & ELECTRIC PROPULSION, SRT	2,513,578	
122	NUCLEAR ROCKETS PROPULSION SRT	2,196,041	
123	CHEMICAL AND SOLAR POWER SRT	2,193,730	
124	SPACE VEHICLE SYSTEMS SRT	3,993,898	
125	ELECTRONICS SYSTEMS SRT	9,192,129	
126	AERONAUTICAL VEHICLES ART	769,553	
127	HUMAN FACTOR SYSTEMS SRT	6,053,675	
128	CHEMICAL PROPULSION SRT	4,650,223	
129	RESEARCH PROGRAM SRT	35,285,277	
130	MISSION ANALYSIS SRT	220,738	
141	IDENTIFICATION AND DISSEMINATION	10,364,928	
143	ECONOMIC STUDIES	3,835,784	
150	TRACKING & DATA ACQUISITION SRT	592,453	
160	EARTH OBSERVATIONS SR&T	1,551,336	
164	COMMUNICATIONS SR&T	275,960	
169	EARTH RESOURCES - SRT	95,429	
180	LAUNCH VEHICLE DEVELOPMENT SRT	826,776	
181	TRAINING GRANTS	108,232,994	
182	FACILITIES GRANTS	42,628,039	
183	RESEARCH GRANTS	72,140,863	
184	SOCIO-ECON STUDIES	165,266	
185	PLANETARY EXPLORATION SRT SCIENCE	47,492,049	
186	PLANETARY EXPLORATION SRT AD TEC DV	705,804	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
NASA HEADQUARTERS (CONTINUED)			
188	PHYSICS AND ASTRONOMY SRT	75,903,848	
189	BIOSCIENCE SRT	46,506,313	
190	MANNED SPACE SCIENCES SRT	735,210	
191	PLANETARY QUARANTINE	241,857	
194	ADV PLAN MISSIONS TECH APMT	323,182	
195	LUANR SCIENCE SPT	2,906,455	
196	PLANETARY ASTRONOMY	1,425,841	
311	NETWORK OPERATIONS-T&D ACQUISITION	4,852	
383	DATA ANALYSIS-LUNAR	934,313	
384	DATA ANALYSIS-PLANETARY	255,688	
385	DATA ANALYSIS	4,248,579	
683	EARTH OBSERVATIONS ADVANCED STUDIES	20,025	
684	ADVANCED STUDIES-LUNAR & PLANETARY	9,700	
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	402,132	
718	NERVA	177,065	
721	V/STOL AIRCRAFT TECHNOLOGY	112,520	
731	CHEMICAL ROCKET EXPER ENGINEERING	12,021	
808	MARINER-MARS 1964	461,713	
811	PIONEER INTERN QUIET SUN YR	132,776	
814	LUNAR ORBITER	31,287	
815	VIKING	128,322	
817	MARINER-VENUS 1967	445,910	
821	ORBITING SOLAR OBSERVATORIES	775,339	
822	ADV ORBITING SOLAR OBSERVATORIES	39,000	
831	ORBITING ASTRONOMICAL OBSERVATORIES	2,667,870	
841	ORBITING GEOPHYSICAL OBSERVATORIES	480,809	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
NASA HEADQUARTERS (CONTINUED)			
848	RETURNED LUNAR SAMPLE ANALYSIS	1,378,321	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	4,036,873	
851	ENERGETIC PARTICLES EXPLORERS	717,298	
855	GEODETIC SATELLITES	538,670	
856	SUNBLAZER	359,175	
866	MANNED SATELLITE SCIENCE	1,362,216	
873	BEACON EXPLORERS	729,881	
874	GERMAN RESEARCH SATELLITE	39,016	
877	RADIO ASTRONOMY EXPLORERS	394,949	
879	SOUNDING ROCKETS	24,688,780	
881	INFRARED SPECTROSCOPY	862,639	
890	SCOUT DEVELOPMENT	240	
897	GAMA RAY ASTRONMY SAT	122,526	
903	GEMINI SUPPORTING DEVELOPMENT	50,000	
904	APOLLO SUPPORTING DEVELOPMENT	269,967	
905	APOLLO APPLICATIONS SUPPORTING DEV	73,799	
908	ADVANCED SYSTEMS DEVELOPMENT	58,041	
911	MERCURY	244,284	
914	APOLLO SPACECRAFT	515,769	
924	APOLLO SPACE OPERATIONS	33,490	
942	APOLLO APPLICATIONS DESIGN & DEV	1,405,465	
945	MSF EXPFRIMENT DEFINITION	2,557,492	
949	APOLLO APPLICATIONS EXPERIMENT DEF	33,378	
975	SPACE STATION	816,356	
981	ADVANCED STUDIES-MANNED SPACE FLGT	1,041,177	541,278,623

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
AMES RESEARCH CTR			
120	POWER & ELECTRIC PROPULSION, SRT	42,064	
124	SPACE VEHICLE SYSTEMS SRT	144,330	
125	ELECTRONICS SYSTEMS SRT	1,030,254	
126	AERONAUTICAL VEHICLES ART	705,419	
127	HUMAN FACTOR SYSTEMS SRT	8,940,384	
129	RESEARCH PROGRAM SRT	967,094	
130	MISSION ANALYSIS SRT	215,291	
160	EARTH OBSERVATIONS SR&T	51,316	
185	PLANETARY EXPLORATION SRT SCIENCE	66,908	
186	PLANETARY EXPLORATION SRT AD TEC DV	29,700	
188	PHYSICS AND ASTRONOMY SRT	33,748	
189	BIOSCIENCE SPT	967,403	
194	ADV PLAN MISSIONS TECH APMT	30,000	
195	LUNAR SCIENCE SRT	68,187	
196	PLANETARY ASTRONOMY	6,526	
320	SPECIAL SUPPORT	54,607	
684	ADVANCED STUDIES-LUNAR & PLANETARY	64,000	
708	SMALL BIOTECHNOLOGY FLIGHTS	1,044,513	
720	SUPERSONIC AIRCRAFT TECHNOLOGY	53,449	
721	V/STOL AIRCRAFT TECHNOLOGY	118	
737	SUBSONIC AIRCRAFT TECHNOLOGY	84,988	
749	APOLLO APPL EXPERIMENT DEFIN /ART/	41,000	
797	COMMON USE SVC CARRIER ACCOUNT-OART	38,562	
811	PIONEER INTERN QUIET SUN YR	10,995,079	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	497,650	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
------------	--	-------------	------------------------

AMES RESEARCH CTR (CONTINUED)

879	SOUNDING ROCKETS	30,595	
883	BIOSATELLITES	15,615,485	
914	APOLLO SPACECRAFT	65,532	
945	MSF EXPERIMENT DEFINITION	123,095	
948	AAP EXPERIMENT DEVELOPMENT	117,827	
975	SPACE STATION	55,000	42,180,124

LEWIS RESEARCH CTR

120	POWER & ELECTRIC PROPULSION, SRT	3,436,828	
122	NUCLEAR ROCKETS PROPULSION SRT	861,794	
123	CHEMICAL AND SOLAR POWER SRT	907,714	
124	SPACE VEHICLE SYSTEMS SRT	699,193	
125	ELECTRONICS SYSTEMS SRT	45,912	
126	AERONAUTICAL VEHICLES ART	929,580	
128	CHEMICAL PROPULSION SRT	3,107,086	
129	RESEARCH PROGRAM SRT	1,938,468	
164	COMMUNICATIONS SR&T	33,318	
701	SNAP-8 DEVELOPMENT PROJECT	10,000	
720	SUPERSONIC AIRCRAFT TECHNOLOGY	1,365,778	
721	V/STOL AIRCRAFT TECHNOLOGY	229,380	
726	M-1 ENGINE DEVELOPMENT	3,500	
731	CHEMICAL ROCKET EXPER ENGINEERING	29,471	
879	SOUNDING ROCKETS	68,528	13,666,550

LANGLEY RESEARCH CTR

000	MISCELLANEOUS RESEARCH	14,999	
-----	------------------------	--------	--

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
------------	--	-------------	------------------------

LANGLEY RESEARCH CTR (CONTINUED)

123	CHEMICAL AND SOLAR POWER SRT	50,000
124	SPACE VEHICLE SYSTEMS SRT	5,538,139
125	ELECTRONICS SYSTEMS SRT	5,072,551
126	AERONAUTICAL VEHICLES ART	4,950,778
127	HUMAN FACTOR SYSTEMS SRT	2,784,541
128	CHEMICAL PROPULSION SRT	687,390
129	RESEARCH PROGRAM SRT	1,977,695
130	MISSION ANALYSIS SRT	116,720
180	LAUNCH VEHICLE DEVELOPMENT SRT	31,956
185	PLANETARY EXPLORATION SRT SCIENCE	25,278
188	PHYSICS AND ASTRONOMY SRT	374,714
189	BIOSCIENCE SRT	50,550
320	SPECIAL SUPPORT	8,000
607	METEOROLOGICAL SOUNDINGS	534,610
630	APPLICATIONS TECHNOLOGY SATELLITES	957,154
683	EARTH OBSERVATIONS ADVANCED STUDIES	50,386
708	SMALL BIOTECHNOLOGY FLIGHTS	75,000
709	SMALL SPACE VEHICLE FLIGHT PROJECT	12,115
720	SUPERSONIC AIRCRAFT TECHNOLOGY	1,129,124
721	V/STOL AIRCRAFT TECHNOLOGY	1,276,729
722	HYPersonic RAMJET EXPERIMENT	476,430
729	HYPersonic RESEARCH ENGINE	70,470
730	RAM C /RADIO ATTENUATN MEASURMNTS/	107,000
731	CHEMICAL ROCKET EXPER ENGINEERING	30,000
736	GEN AVIATION AIRCRAFT TECH SUP RES	484,222

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
LANGLEY RESEARCH CTR (CONTINUED)			
737	SUBSONIC AIRCRAFT TECHNOLOGY	20,319	
815	VIKING	283,000	
863	AIR DENSITY/INJUN EXPLORERS	4,593,773	
879	SOUNDING ROCKETS	8,678	
911	MERCURY	1,090,000	32,882,321
FLIGHT RESEARCH CTR			
125	ELECTRONICS SYSTEMS SRT	163,952	
126	AERONAUTICAL VEHICLES ART	240,075	
708	SMALL BIOTECHNOLOGY FLIGHTS	17,050	
720	SUPERSONIC AIRCRAFT TECHNOLOGY	41,648	462,725
ELECTRONICS RES CTR			
000	MISCELLANEOUS RESEARCH	798,053	
120	POWER & ELECTRIC PROPULSION, SRT	393,020	
123	CHEMICAL AND SOLAR POWER SRT	80,349	
124	SPACE VEHICLE SYSTEMS SRT	65,000	
125	ELECTRONICS SYSTEMS SRT	19,701,276	
126	AERONAUTICAL VEHICLES ART	89,916	
127	HUMAN FACTOR SYSTEMS SRT	810,339	
129	RESEARCH PROGRAM SRT	608,376	
141	IDENTIFICATION AND DISSEMINATION	40,000	
160	EARTH OBSERVATIONS SR&T	1,245,926	
164	COMMUNICATIONS SR&T	182,252	
166	APPLICATIONS TECHNOLOGY SRT	4,329	
180	LAUNCH VEHICLE DEVELOPMENT SRT	393,425	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
------------	--	-------------	------------------------

ELECTRONICS RES CTR (CONTINUED)

188	PHYSICS AND ASTRONOMY SRT	40,155	
189	BIOSCIENCE SRT	20,000	
708	SMALL BIOTECHNOLOGY FLIGHTS	28,875	
736	GEN AVIATION AIRCRAFT TECH SUP RES	11,717	
797	COMMON USE SVC CARRIER ACCOUNT-OART	122,250	
855	GEODETIC SATELLITES	75,000	
905	APOLLO APPLICATIONS SUPPORTING DEV	1,600,000	
911	MERCURY	48,000	26,358,258

GODDARD SPAC FLT CTR

000	MISCELLANEOUS RESEARCH	106,750	
120	POWER & ELECTRIC PROPULSION, SRT	734,659	
123	CHEMICAL AND SOLAR POWER SRT	341,317	
124	SPACE VEHICLE SYSTEMS SRT	276,075	
125	ELECTRONICS SYSTEMS SRT	3,211,329	
129	RESEARCH PROGRAM SRT	19,707	
141	IDENTIFICATION AND DISSEMINATION	433,976	
150	TRACKING & DATA ACQUISITION SRT	806,876	
160	EARTH OBSERVATIONS SR&T	7,268,175	
164	COMMUNICATIONS SR&T	210,299	
180	LAUNCH VEHICLE DEVELOPMENT SRT	35,642	
183	RESEARCH GRANTS	429,072	
185	PLANETARY EXPLORATION SRT SCIENCE	604,610	
186	PLANETARY EXPLORATION SRT AD TEC DV	70,000	
188	PHYSICS AND ASTRONOMY SRT	3,969,005	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	INSTALLATION OBLIGATIONS	INSTALLATION TOTALS
GODDARD SPAC FLT CTR (CONTINUED)			
189	BIOSCIENCE SRT	89,688	
195	LUNAR SCIENCE SRT	148,372	
311	NETWORK OPERATIONS-T&D ACQUISITION	6,009,131	
312	EQUIP & COMPONENTS-T&D ACQUISITION	156,478	
384	DATA ANALYSIS-PLANETARY	26,000	
385	DATA ANALYSIS	446,215	
492	DELTA PROCUREMENT	301,431	
493	AGENA PROCUREMENT /EXCL GEMINI VEH/	298,000	
494	ATLAS/OTHER THAN MERCURY/PROCUREMNT	19,000	
497	SUSTAINING ENGINEERNG & MAINTENANCE	332,000	
5101	SPACE PROJECTS CENTER	115,000	
5113	LAUNCH PHASE SIMULATOR	23,658	
601	TIROS/TOS IMPROVEMENTS	219,883	
603	METEOROLOGICAL FLIGHT EXPERIMENTS	874,450	
604	NIMBUS	659,315	
607	METEOROLOGICAL SOUNDINGS	5,417,837	
610	COPP APPLICATIONS SATELLITE	100,477	
622	ECHO A-12 /INCLUDES AVT/	30,994	
625	RELAY	344,603	
627	SYNCOM	31,606	
630	APPLICATIONS TECHNOLOGY SATELLITES	5,407,603	
709	SMALL SPACE VEHICLE FLIGHT PROJECT	9,000	
803	SURVEYOR	198,886	
806	MARINER A	50,000	
807	MARINER B /LIQUIDATION ONLY/	22,500	
811	PIONEER INTERN QUIET SUN YR	27,000	
821	ORBITING SOLAR OBSERVATORIES	18,997,133	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	INSTALLATION OBLIGATIONS	INSTALLATION TOTALS
------------	--	-----------------------------	------------------------

GODDARD SPAC FLT CTR (CONTINUED)

822	ADV ORBITING SOLAR OBSEVATORIES	242,339
823	HELIOS	106,864
831	ORBITING ASTRONOMICAL OBSEVATORIES	26,437,156
841	ORBITING GEOPHYSICAL OBSEVATORIES	27,694,288
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	44,757
851	ENERGETIC PARTICLES EXPLORERS	859,615
852	ATMOSPHERE EXPLORERS	193,439
853	IONOSPHERE EXPLORERS	3,000
855	GEODETIC SATELLITES	211,100
857	SMALL SCIENTIFIC SATELLITES /SSS/ INTERPLANETARY EXPLORERS /IMP/	461,300
861	INTERPLANETARY EXPLORERS /IMP/	11,848,222
870	UNITED KINGDOM SATELLITES	235,000
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	1,917,412
873	BEACON EXPLORERS	28,000
874	GERMAN RESEARCH SATELLITE	155,000
877	RADIO ASTRONOMY EXPLORERS	97,478
878	SMALL ASTRONOMY SATELLITES	200,000
879	OUNDING ROCKETS	9,931,908
891	CENTAUR DEVELOPMENT	156,000
892	DELTA DEVELOPMENT /LIQUIDATN ONLY/	15,000
894	JOINT ITALIAN/UNITED STATES PROJECT	438,720
904	APOLLO SUPPORTING DEVELOPMENT	79,000
9101	EQUIPMENT AND INSTRUMENTATION	195,000
9106	DATA ACQUISITION FACILITY	1,534,208
914	APOLLO SPACECRAFT	6,830

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
GODDARD SPAC FLT CTR (CONTINUED)			
923	GEMINI SUPPORT	30,000	
942	APOLLO APPLICATIONS	170,000	
	DESIGN & DEV		
948	AAP EXPERIMENT DEVELOPMENT	5,509	142,170,897
WALLOPS STATION			
188	PHYSICS AND ASTRONOMY SRT	88,160	
189	BIOSCIENCE SRT	75,133	
311	NETWORK OPERATIONS-T&D ACQUISITION	99,339	
859	UNIVERSITY EXPLORERS /RICE UNIV/	4,074,017	
874	GERMAN RESEARCH SATELLITE	43,000	
879	OUNDING ROCKETS	700,000	5,079,649
MARSHALL SPACFLT CTR			
000	MISCELLANEOUS RESEARCH	12,112	
103	LAUNCH VEHICLE TECHN	1,223,543	
104	PROPULSION TECHNOLOGY	47,000	
120	POWER & ELECTRIC PROPULSION, SRT	215,297	
123	CHEMICAL AND SOLAR POWER SRT	188,452	
124	SPACE VEHICLE SYSTEMS SRT	2,517,524	
125	ELECTRONICS SYSTEMS SRT	3,037,436	
125	AERONAUTICAL VEHICLES ART	168,818	
127	HUMAN FACTOR SYSTEMS SRT	106,695	
128	CHEMICAL PROPULSION SRT	238,403	
129	RESEARCH PROGRAM SRT	2,509,821	
141	IDENTIFICATION AND DISSEMINATION	262,048	
150	TRACKING & DATA ACQUISITION SRT	1,189,379	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING UNIQUE PROJECT TITLE	INSTALLATION OBLIGATIONS	INSTALLATION TOTALS
------------	---------------------------------	-----------------------------	------------------------

MARSHALL SPACFLT CTR (CONTINUED)

160	EARTH OBSERVATIONS SR&T	438,908	
188	PHYSICS AND ASTRONOMY SRT	460,805	
195	LUNAR SCIENCE SRT	15,978	
818	VOYAGER	29,984	
822	ADV ORBITING SOLAR OBSERVATORIES	791,758	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	297,029	
904	APOLLO SUPPORTING DEVELOPMENT	558,063	
905	APOLLO APPLICATIONS SUPPORTING DEV	826,858	
908	ADVANCED SYSTEMS DEVELOPMENT	492,786	
914	APOLLO SPACECRAFT	145,170	
931	SATURN I VEHICLE	963,492	
932	SATURN 1B VEHICLE	752,572	
933	SATURN V VEHICLE	8,351,974	
940	FNGINE DEVELOPMENT	20,000	
945	MSF EXPERIMENT DEFINITION	391,678	
948	AAP EXPERIMENT DEVELOPMENT	18,540,388	
964	SATURN WORKSHOP	211,248	
965	APOLLO TELESCOPE MOUNT	4,990	
975	SPACE STATION	139,040	
981	ADVANCED STUDIES-MANNED SPACE FLGT	66,082	
991	PAYOUT INTEGRATION	22,000	
996	PROGRAM SUPPORT	60,000	45,297,331

MANNED SPACECRFT CTR

000	MISCELLANEOUS RESEARCH	233,143	
101	SPACECRAFT TECHNOLOGY	1,372,674	
124	SPACE VEHICLE SYSTEMS SRT	693,395	
125	ELECTRONICS SYSTEMS SRT	485,000	
127	HUMAN FACTOR SYSTEMS SRT	1,129,285	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	INSTALLATION OBLIGATIONS	INSTALLATION TOTALS
------------	--	-----------------------------	------------------------

MANNED SPACECRAFT CTR (CONTINUED)

128	CHEMICAL PROPULSION SPT	183,801
160	EARTH OBSERVATIONS SRT	2,134,062
169	EARTH RESOURCES - SPT	457,408
185	PLANETARY EXPLORATION SRT SCIENCE	140,000
188	PHYSICS AND ASTRONOMY SRT	557,763
189	BIOSCIENCE SRT	15,000
190	MANNED SPACE SCIENCES SRT	314,442
195	LUNAR SCIENCE SRT	50,000
196	PLANETARY ASTRONOMY	70,000
640	EARTH RESOURCES SURVEY-AIRCRAFT	1,142,933
848	RETURNED LUNAR SAMPLE ANALYSIS	955,547
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	215,029
866	MANNED SATELLITE SCIENCE	123,860
867	MANNED LUNAR SCIENCE	101,833
903	GEMINI SUPPORTING DEVELOPMENT	229,485
904	APOLLO SUPPORTING DEVELOPMENT	3,357,567
905	APOLLO APPLICATIONS SUPPORTING DEV	2,171,133
908	ADVANCED SYSTEMS DEVELOPMENT	3,903,362
911	MERCURY	153,087
912	MANNED ONE-DAY MISSION	33,454
913	GEMINI SPACECRAFT	138,472
914	APOLLO SPACECRAFT	165,096,579
921	MISSION CONTROL SYSTEMS	429,606
923	GEMINI SUPPORT	1,447,504
924	APOLLO SPACE OPERATIONS	200,006
942	APOLLO APPLICATIONS DESIGN & DEV	2,604,824
945	MSF EXPERIMENT DEFINITION	1,553,205
948	AAP EXPERIMENT DEVELOPMENT	1,635,250

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FUNDING INSTALLATION **FPN UNIQUE PROJECT TITLE** **INSTALLATION**
OBLIGATIONS **TOTALS**

MANNED SPACECRAFT CTR (CONTINUED)

949	APOLLO APPLICATIONS EXPERIMENT DEF	307,035
961	SPACECRAFT MODIFICATIONS	962,673
975	SPACE STATION	1,974,018
981	ADVANCED STUDIES-MANNED SPACE FLGT	458,758
997	COMMON USE SVC CARRIER ACCOUNT-DMSF	543,571 197,676,774

KENNEDY SPACE CENTER

000	MISCELLANEOUS RESEARCH	89,210
105	LAUNCH OPERATION TECH	38,175
491	CENTAUR PROCUREMENT	140,999
492	DELTA PROCUREMENT	1,108,101
493	AGENA PROCUREMENT /EXCL	141,999
	GEMINI VEH/	
497	SUSTAINING ENGINEERNG & MAINTENANCE	421,382
731	CHEMICAL ROCKET EXPER ENGINEERING	181,139
904	APOLLO SUPPORTING DEVELOPMENT	415,563
908	ADVANCED SYSTEMS DEVELOPMENT	25,000
950	LAUNCH OPERATIONS SUPPORT	151,504
		2,713,072

GRAND TOTAL 1,049,766,324

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS
BY UNIQUE PROJECT AND FUNDING INSTALLATION

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
000	MISCELLANEOUS RESEARCH		

	NASA HEADQUARTERS	3,243,671	
	LANGLEY RESEARCH CTR	14,999	
	ELECTRONICS RES CTR	798,053	
	GODDARD SPAC FLT CTR	106,750	
	MARSHALL SPACFLT CTR	12,112	
	MANNED SPACECRFT CTR	233,143	
	KENNEDY SPACE CENTER	89,210	4,497,938
101	SPACECRAFT TECHNOLOGY		

	MANNED SPACECRFT CTR	1,372,674	1,372,674
103	LAUNCH VEHICLE TECH		

	MARSHALL SPACFLT CTR	1,223,543	1,223,543
104	PROPULSION TECHNOLOGY		

	NASA HEADQUARTERS	346,000	
	MARSHALL SPACFLT CTR	47,000	393,000
105	LAUNCH OPERATION TECH		

	KENNEDY SPACE CENTER	38,175	38,175

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
120	POWER & ELECTRIC PROPULSION, SRT		
	NASA HEADQUARTERS	2,513,578	
	AMES RESEARCH CTR	42,064	
	LEWIS RESEARCH CTR	3,436,828	
	ELECTRONICS RES CTR	393,020	
	GODDARD SPAC FLT CTR	734,659	
	MARSHALL SPACFLT CTR	215,297	7,335,446
122	NUCLEAR ROCKETS PROPULSION SRT		
	NASA HEADQUARTERS	2,196,041	
	LEWIS RESEARCH CTR	861,794	3,057,835
123	CHEMICAL AND SOLAR POWER SRT		
	NASA HEADQUARTERS	2,193,730	
	LEWIS RESEARCH CTR	907,714	
	LANGLEY RESEARCH CTR	50,000	
	ELECTRONICS RES CTR	80,349	
	GODDARD SPAC FLT CTR	341,317	
	MARSHALL SPACFLT CTR	188,452	3,761,562
124	SPACE VEHICLE SYSTEMS SRT		
	NASA HEADQUARTERS	3,993,898	
	AMES RESEARCH CTR	144,330	
	LEWIS RESEARCH CTR	699,193	
	LANGLEY RESEARCH CTR	5,538,139	
	ELECTRONICS RES CTR	65,000	
	GODDARD SPAC FLT CTR	276,075	
	MARSHALL SPACFLT CTR	2,517,524	
	MANNED SPACECRAFT CTR	693,395	13,927,554

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
125	ELECTRONICS SYSTEMS SRT		
	NASA HEADQUARTERS	9,192,129	
	AMES RESEARCH CTR	1,030,254	
	LEWIS RESEARCH CTR	45,912	
	LANGLEY RESEARCH CTR	5,072,551	
	FLIGHT RESEARCH CTR	163,952	
	ELECTRONICS RES CTR	19,701,276	
	GODDARD SPAC FLT CTR	3,211,329	
	MARSHALL SPACFLT CTR	3,037,436	
	MANNED SPACECRFT CTR	485,000	41,939,839
126	AERONAUTICAL VEHICLES ART		
	NASA HEADQUARTERS	760,553	
	AMES RESEARCH CTR	705,419	
	LEWIS RESEARCH CTR	929,580	
	LANGLEY RESEARCH CTR	4,950,778	
	FLIGHT RESEARCH CTR	240,075	
	ELECTRONICS RES CTR	89,916	
	MARSHALL SPACFLT CTR	168,818	7,854,139
127	HUMAN FACTOR SYSTEMS SRT		
	NASA HEADQUARTERS	6,053,675	
	AMES RESEARCH CTR	8,940,384	
	LANGLEY RESEARCH CTR	2,784,541	
	ELECTRONICS RES CTR	810,339	
	MARSHALL SPACFLT CTR	106,695	
	MANNED SPACECRFT CTR	1,129,285	19,824,919
128	CHEMICAL PROPULSION SRT		
	NASA HEADQUARTERS	4,650,223	
	LEWIS RESEARCH CTR	3,107,086	
	LANGLEY RESEARCH CTR	687,390	
	MARSHALL SPACFLT CTR	238,403	
	MANNED SPACECRFT CTR	183,801	8,866,903

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
129	RESEARCH PROGRAM SRT		
	NASA HEADQUARTERS	35,285,277	
	AMES RESEARCH CTR	967,094	
	LEWIS RESEARCH CTR	1,938,468	
	LANGLEY RESRACH CTR	1,977,695	
	ELECTRONICS RES CTR	608,375	
	GODDARD SPAC FLT CTR	19,707	
	MARSHALL SPACFLT CTR	2,509,821	43,306,438
130	MISSION ANALYSIS SRT		
	NASA HEADQUARTERS	220,738	
	AMES RESEARCH CTR	215,291	
	LANGLEY RESEARCH CTR	116,720	552,749
141	IDENTIFICATION AND DISSEMINATION		
	NASA HEADQUARTERS	10,364,928	
	ELECTRONICS RES CTR	40,000	
	GODDARD SPAC FLT CTR	433,976	
	MARSHALL SPACFLT CTR	262,048	11,100,952
143	ECONOMIC STUDIES		
	NASA HEADQUARTERS	3,835,784	3,835,784
150	TRACKING & DATA ACQUISITION SRT		
	NASA HEADQUARTERS	592,453	
	GODDARD SPAC FLT CTR	806,876	
	MARSHALL SPACFLT CTR	1,189,379	2,588,708

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
160	EARTH OBSERVATIONS SR&T		

	NASA HEADQUARTERS	1,551,336	
	AMES RESEARCH CTR	51,316	
	ELECTRONICS RES CTR	1,245,926	
	GODDARD SPAC FLT CTR	7,268,175	
	MARSHALL SPACFLT CTR	438,908	
	MANNED SPACECRFT CTR	2,134,062	12,689,723
164	COMMUNICATIONS SR&T		

	NASA HEADQUARTERS	275,960	
	LEWIS RESEARCH CTR	33,318	
	ELECTRONICS RES CTR	182,252	
	GODDARD SPAC FLT CTR	210,299	701,820
166	APPLICATIONS TECHNOLOGY SRT		

	ELECTRONICS RES CTR	4,329	4,329
169	EARTH RESOURCES - SRT		

	NASA HEADQUARTERS	95,429	
	MANNED SPACECRFT CTR	457,408	552,837
180	LAUNCH VEHICLE DEVELOPMENT SRT		

	NASA HEADQUARTERS	826,776	
	LANGLEY RESEARCH CTR	31,956	
	ELECTRONICS RES CTR	393,425	
	GODDARD SPAC FLT CTR	35,642	1,287,799

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
181	TRAINING GRANTS		
	NASA HEADQUARTERS	108,232,994	108,232,994
182	FACILITIES GRANTS		
	NASA HEADQUARTERS	42,628,039	42,628,039
183	RESEARCH GRANTS		
	NASA HEADQUARTERS GODDARD SPAC FLT CTR	72,140,863 429,072	72,569,935
184	SOCIO-ECON STUDIES		
	NASA HEADQUARTERS	165,266	165,266
185	PLANETARY EXPLORATION SRT SCIENCE		
	NASA HEADQUARTERS AMES RESEARCH CTR LANGLEY RESEARCH CTR GODDARD SPAC FLT CTR MANNE SPACECRFT CTR	47,492,049 66,908 25,278 604,610 140,000	48,328,845
186	PLANETARY EXPLORATION SRT AD TEC DV		
	NASA HEADQUARTERS AMES RESEARCH CTR GODDARD SPAC FLT CTR	705,804 29,700 70,000	805,504

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
188	PHYSICS AND ASTRONOMY SRT		

	NASA HEADQUARTERS	75,903,848	
	AMES RESEARCH CTR	33,748	
	LANGLEY RESEARCH CTR	374,714	
	ELECTRONICS RES CTR	40,155	
	GODDARD SPAC FLT CTR	3,969,005	
	WALLOPS STATION	88,160	
	MARSHALL SPACFLT CTR	460,805	
	MANNED SPACECRFT CTR	657,763	81,528,198
189	BIOSCIENCE SPT		

	NASA HEADQUARTERS	46,506,313	
	AMES RESEARCH CTR	967,403	
	LANGLEY RESEARCH CTR	50,550	
	ELECTRONICS RES CTR	20,000	
	GODDARD SPAC FLT CTR	89,688	
	WALLOPS STATION	75,133	
	MANNED SPACECRFT CTR	15,000	47,724,087
190	MANNED SPACE SCIENCES SRT		

	NASA HEADQUARTERS	735,210	
	MANNED SPACECRFT CTR	314,442	1,049,652
191	PLANETARY QUARANTINE		

	NASA HEADQUARTERS	241,857	241,857
194	ADV PLAN MISSIONS TECH APMT		

	NASA HEADQUARTERS	323,182	
	AMES RESEARCH CTR	30,000	353,182

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
195	LUNAR SCIENCE SRT		

	NASA HEADQUARTERS	2,906,455	
	AMES RESEARCH CTR	68,187	
	GODDARD SPAC FLT CTR	148,372	
	MARSHALL SPACFLT CTR	15,978	
	MANNED SPACECRFT CTR	50,000	3,188,992
196	PLANETARY ASTRONOMY		

	NASA HEADQUARTERS	1,425,841	
	AMES RESEARCH CTR	6,526	
	MANNED SPACECRFT CTR	70,000	1,502,367
311	NETWORK OPERATIONS-T&D ACQUISITION		

	NASA HEADQUARTERS	4,852	
	GODDARD SPAC FLT CTR	6,009,131	
	WALLOPS STATION	99,339	6,113,322
312	EQUIP & COMPONENTS-T&D ACQUISITION		

	GODDARD SPAC FLT CTR	156,478	156,478
320	SPECIAL SUPPORT		

	AMES RESEARCH CTR	54,607	
	LANGLEY RESEARCH CTR	8,000	62,607
383	DATA ANALYSIS-LUNAR		

	NASA HEADQUARTERS	934,313	934,313

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
384	DATA ANALYSIS-PLANETARY		

	NASA HEADQUARTERS	255,688	
	GODDARD SPAC FLT CTR	26,000	281,688
385	DATA ANALYSIS		

	NASA HEADQUARTERS	4,248,579	
	GODDARD SPAC FLT CTR	446,215	4,694,794
491	CENTAUR PROCUREMENT		

	KENNEDY SPACE CENTER	140,999	140,999
492	DELTA PROCUREMENT		

	GODDARD SPAC FLT CTR	301,431	
	KENNEDY SPACE CENTER	1,108,101	1,409,532
493	AGENA PROCUREMENT /EXCL GFMINI VEH/		

	GODDARD SPAC FLT CTR	298,000	
	KENNEDY SPACE CENTER	141,999	439,999
494	ATLAS/OTHER THAN MERCURY/PROCUREMNT		

	GODDARD SPAC FLT CTR	19,000	19,000
497	SUSTAINING ENGINEERNG & MAINTENANCE		

	GODDARD SPAC FLT CTR	332,000	
	KENNEDY SPACE CENTER	421,382	753,382

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
5101	SPACE PROJECTS CENTER		

	GODDARD SPAC FLT CTR	115,000	115,000
5113	LAUNCH PHASE SIMULATOR		

	GODDARD SPAC FLT CTR	23,658	23,658
601	TIROS/TDS IMPROVEMENTS		

	GODDARD SPAC FLT CTR	219,883	219,883
603	METEOROLOGICAL FLIGHT EXPERIMENTS		

	GODDARD SPAC FLT CTR	874,450	874,450
604	NIMBUS		

	GODDARD SPAC FLT CTR	659,315	659,315
607	METEOROLOGICAL SOUNDINGS		

	LANGLEY RESEARCH CTR	534,610	
	GODDARD SPAC FLT CTR	5,417,837	5,952,447
610	COPP APPLICATIONS SATELLITE		

	GODDARD SPAC FLT CTR	100,477	100,477

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
622	ECHO A-12 / INCLUDES AVT/		

	GODDARD SPAC FLT CTR	30,994	30,994
626	RELAY		

	GODDARD SPAC FLT CTR	344,603	344,603
627	SYNCOM		

	GODDARD SPAC FLT CTR	31,606	31,606
630	APPLICATIONS TECHNOLOGY SATELLITES		

	LANGLEY RESEARCH CTR	957,154	
	GODDARD SPAC FLT CTR	5,407,603	6,364,757
640	EARTH RESOURCES SURVEY-AIRCRAFT		

	MANNED SPACECRFT CTR	1,142,933	1,142,933
683	EARTH OBSERVATIONS ADVANCED STUDIES		

	NASA HEADQUARTERS	20,025	
	LANGLEY RESEARCH CTR	50,386	70,411
684	ADVANCED STUDIES-LUNAR & PLANETARY		

	NASA HEADQUARTERS	9,700	
	AMES RESEARCH CTR	64,000	73,700

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY		

	NASA HEADQUARTERS	402,132	402,132
701	SNAP-8 DEVELOPMENT PROJECT		

	LEWIS RESEARCH CTR	10,000	10,000
708	SMALL BIOTECHNOLOGY FLIGHTS		

	AMES RESEARCH CTR	1,044,513	
	LANGLEY RESEARCH CTR	75,000	
	FLIGHT RESEARCH CTR	17,050	
	ELECTRONICS RES CTR	28,875	1,165,438
709	SMALL SPACE VEHICLE FLIGHT PROJECT		

	LANGLEY RESEARCH CTR	12,115	
	GODDARD SPAC FLT CTR	9,000	21,115
718	NERVA		

	NASA HEADQUARTERS	177,065	177,065
720	SUPERSONIC AIRCRAFT TECHNOLOGY		

	AMES RESEARCH CTR	53,449	
	LEWIS RESEARCH CTR	1,365,778	
	LANGLEY RESEARCH CTR	1,129,124	
	FLIGHT RESEARCH CTR	41,648	2,589,999

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
721	V/STOL AIRCRAFT TECHNOLOGY		

	NASA HEADQUARTERS	112,520	
	AMES RESEARCH CTR	118	
	LEWIS RESEARCH CTR	229,380	
	LANGLEY RESEARCH CTR	1,276,729	1,618,747
722	HYPersonic RAMJET EXPERIMENT		

	LANGLEY RESEARCH CTR	476,430	476,430
726	M-1 ENGINE DEVELOPMENT		

	LEWIS RESEARCH CTR	3,500	3,500
729	HYPersonic RESEARCH ENGINE		

	LANGLEY RESEARCH CTR	70,470	70,470
730	RAM C /RADIO ATTENUATN MEASURMNTS/		

	LANGLEY RESEARCH CTR	107,000	107,000
731	CHEMICAL ROCKET EXPER ENGINEERING		

	NASA HEADQUARTERS	12,021	
	LEWIS RESEARCH CTR	29,471	
	LANGLEY RESEARCH CTR	30,000	
	KENNEDY SPACE CENTER	181,139	252,631

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
736	GEN AVIATION AIRCRAFT TECH SUP RES		

	LANGLEY RESEARCH CTR	484,222	
	ELECTRONICS RES CTR	11,717	495,939
737	SUBSONIC AIRCRAFT TECHNOLOGY		

	AMES RESEARCH CTR	84,988	
	LANGLEY RESEARCH CTR	20,319	105,307
749	APOLLO APPL EXPERIMENT DEFIN /ART/		

	AMES RESEARCH CTR	41,000	41,000
797	COMMON USE SVC CARRIER ACCOUNT-OART		

	AMES RESEARCH CTR	38,562	
	ELECTRONICS RES CTR	122,250	160,812
803	SURVEYOR		

	GODDARD SPAC FLT CTR	198,886	198,886
806	MARINER A		

	GODDARD SPAC FLT CTR	50,000	50,000
807	MARINER B		

	GODDARD SPAC FLT CTR	22,500	22,500

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
808	MARINER-MARS 1964		

	NASA HEADQUARTERS	461,713	461,713
811	PIONEER INTERN QUIET SUN YR		

	NASA HEADQUARTERS	132,776	
	AMES RESEARCH CTR	10,995,079	
	GODDARD SPAC FLT CTR	27,000	11,154,855
814	LUNAR ORBITER		

	NASA HEADQUARTERS	31,287	31,287
815	VIKING		

	NASA HEADQUARTERS	128,322	
	LANGLEY RESEARCH CTR	283,000	411,322
817	MARINER-VENUS 1967		

	NASA HEADQUARTERS	445,910	445,910
818	VOYAGER		

	MARSHALL SPACFLT CTR	29,984	29,984
821	ORBITING SOLAR OBSERVATORIES		

	NASA HEADQUARTERS	775,339	
	GODDARD SPAC FLT CTR	18,997,133	19,772,472

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
822	ADV ORBITING SOLAR OBSERVATORIES		

	NASA HEADQUARTERS	39,000	
	GODDARD SPAC FLT CTR	242,339	
	MARSHALL SPACFLT CTR	791,758	1,073,097
823	HELIOS		

	GODDARD SPAC FLT CTR	106,864	106,864
831	ORBITING ASTRONOMICAL OBSERVATORIES		

	NASA HEADQUARTERS	2,667,870	
	GODDARD SPAC FLT CTR	26,437,156	29,105,026
841	ORBITING GEOPHYSICAL OBSRVATORIES		

	NASA HEADQUARTERS	480,809	
	GODDARD SPAC FLT CTR	27,694,288	28,175,097
849	RETURNED LUNAR SAMPLE ANALYSIS		

	NASA HEADQUARTERS	1,378,321	
	MANNED SPACECRFT CTR	955,547	2,333,868
849	APOLLO APPL EXPERIMENT DEFIN /SSA/		

	NASA HEADQUARTERS	4,036,873	
	AMES RESEARCH CTR	497,650	
	GODDARD SPAC FLT CTR	44,757	
	MARSHALL SPACFLT CTR	297,029	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	(CONTINUED)	
	MANNED SPACECRFT CTR	215,029	5,091,338
851	ENERGETIC PARTICLES EXPLORERS		
	NASA HEADQUARTERS GODDARD SPAC FLT CTR	717,298 859,615	1,576,913
852	ATMOSPHERE EXPLORERS		
	GODDARD SPAC FLT CTR	193,439	193,439
853	IONOSPHERE EXPLORERS		
	GODDARD SPAC FLT CTR	3,000	3,000
855	GEODETIC SATFLLITES		
	NASA HEADQUARTERS ELECTRONICS RES CTR GODDARD SPAC FLT CTR	538,670 75,000 211,100	824,770
856	SUNBLAZER		
	NASA HEADQUARTERS	359,175	359,175
857	SMALL SCIENTIFIC SATELLITES /SSS/		
	GODDARD SPAC FLT CTR	461,300	461,300

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
859	UNIVERSITY EXPLORERS /RICE UNIV/		

	WALLOPS STATION	4,074,017	4,074,017
861	INTERPLANETARY EXPLORERS /IMP/		

	GODDARD SPAC FLT CTR	11,848,222	11,848,222
863	AIR DENSITY/INJUN EXPLORERS		

	LANGLEY RESEARCH CTR	4,593,773	4,593,773
866	MANNED SATELLITE SCIENCE		

	NASA HEADQUARTERS MANNED SPACECRFT CTR	1,362,216 123,860	1,486,076
867	MANNED LUNAR SCIENCE		

	MANNED SPACECRFT CTR	101,833	101,833
870	UNITED KINGDOM SATELLITES		

	GODDARD SPAC FLT CTR	235,000	235,000
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY		

	GODDARD SPAC FLT CTR	1,917,412	1,917,412

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
873	BEACON EXPLORERS		

	NASA HEADQUARTERS	729,881	
	GODDARD SPAC FLT CTR	28,000	757,881
874	GERMAN RESEARCH SATELLITE		

	NASA HEADQUARTERS	39,016	
	GODDARD SPAC FLT CTR	155,000	
	WALLOPS STATION	43,000	237,016
877	RADIO ASTRONOMY EXPLORERS		

	NASA HEADQUARTERS	394,949	
	GODDARD SPAC FLT CTR	97,478	492,427
878	SMALL ASTRONOMY SATELLITES		

	GODDARD SPAC FLT CTR	200,000	200,000
879	SOUNDING ROCKETS		

	NASA HEADQUARTERS	24,688,780	
	AMES RESEARCH CTR	30,595	
	LEWIS RESEARCH CTR	68,528	
	LANGLEY RESEARCH CTR	8,678	
	GODDARD SPAC FLT CTR	9,931,908	
	WALLOPS STATION	700,000	35,428,489
881	INFRARED SPECTROSCOPY		

	NASA HEADQUARTERS	862,639	862,639

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
883	BIOSATELLITES		

	AMES RESEARCH CTR	15,615,485	15,615,485
890	SCOUT DEVELOPMENT		

	NASA HEADQUARTERS	240	240
891	CENTAUR DEVELOPMENT		

	GODDARD SPAC FLT CTR	156,000	156,000
892	DELTA DEVELOPMENT		

	GODDARD SPAC FLT CTR	15,000	15,000
894	JOINT ITALIAN/UNITED STATES PROJECT		

	GODDARD SPAC FLT CTR	438,720	438,720
897	GAMA RAY ASTRONMY SAT		

	NASA HEADQUARTERS	122,526	122,526
903	GEMINI SUPPORTING DEVELOPMENT		

	NASA HEADQUARTERS MANNED SPACECRAFT CTR	50,000 229,485	279,485

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
904	APOLLO SUPPORTING DEVELOPMENT		

	NASA HEADQUARTERS	269,967	
	GODDARD SPAC FLT CTR	79,000	
	MARSHALL SPACFLT CTR	558,063	
	MANNED SPACECRFT CTR	3,357,567	
	KENNEDY SPACE CENTER	415,563	4,680,160
905	APOLLO APPLICATIONS SUPPORTING DEV		

	NASA HEADQUARTERS	73,799	
	ELECTRONICS RES CTR	1,600,000	
	MARSHALL SPACFLT CTR	826,858	
	MANNED SPACECRFT CTR	2,171,133	4,671,790
908	ADVANCED SYSTEMS DEVELOPMENT		

	NASA HEADQUARTERS	58,041	
	MARSHALL SPACFLT CTR	492,786	
	MANNED SPACECRFT CTR	3,903,362	
	KENNEDY SPACE CENTER	25,000	4,479,189
9101	EQUIPMENT AND INSTRUMENTATION		

	GODDARD SPAC FLT CTR	195,000	195,000
9106	DATA ACQUISITION FACILITY		

	GODDARD SPAC FLT CTR	1,534,208	1,534,208

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
911	MERCURY		

	NASA HEADQUARTERS	244,284	
	LANGLEY RESEARCH CTR	1,090,000	
	ELECTRONICS RES CTR	48,000	
	MANNED SPACECRFT CTR	153,087	1,535,371
912	MANNED ONE-DAY MISSION		

	MANNED SPACECRFT CTR	33,454	33,454
913	GEMINI SPACECRAFT		

	MANNED SPACECRFT CTR	138,472	138,472
914	APOLLO SPACECRAFT		

	NASA HEADQUARTERS	515,769	
	AMES RESEARCH CTR	65,532	
	GODDARD SPAC FLT CTR	6,830	
	MARSHALL SPACFLT CTR	145,170	
	MANNED SPACECRFT CTR	165,096,579	165,829,880
921	MISSION CONTROL SYSTEMS		

	MANNED SPACECRFT CTR	429,606	429,606
923	GEMINI SUPPORT		

	GODDARD SPAC FLT CTR	30,000	
	MANNED SPACECRFT CTR	1,447,504	1,477,504

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
924	Apollo Space Operations		

	NASA HEADQUARTERS	33,490	
	MANNED SPACECRFT CTR	200,006	233,496
931	Saturn I Vehicle		

	MARSHALL SPACFLT CTR	963,492	963,492
932	Saturn IB Vehicle		

	MARSHALL SPACFLT CTR	752,572	752,572
933	Saturn V Vehicle		

	MARSHALL SPACFLT CTR	8,351,974	8,351,974
940	Engine Development		

	MARSHALL SPACFLT CTR	20,000	20,000
942	Apollo Applications Design & Dev		

	NASA HEADQUARTERS	1,405,465	
	GODDARD SPAC FLT CTR	170,000	
	MANNED SPACECRFT CTR	2,606,824	4,182,289
945	MSF Experiment Definition		

	NASA HEADQUARTERS	2,557,492	
	AMES RESEARCh CTR	123,095	
	MARSHALL SPACFLT CTR	391,678	
	MANNED SPACECRFT CTR	1,553,205	4,625,470

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
948	AAP EXPERIMENT DEVELOPMENT		

	AMES RESEARCH CTR	117,827	
	GODDARD SPAC FLT CTR	5,509	
	MARSHALL SPACFLT CTR	18,540,388	
	MANNED SPACECRFT CTR	1,635,260	20,298,984
949	APOLLO APPLICATIONS EXPERIMENT DEF		

	NASA HEADQUARTERS	33,378	
	MANNED SPACECRFT CTR	307,035	340,413
950	LAUNCH OPERATIONS SUPPORT		

	KENNEDY SPACE CENTER	151,504	151,504
951	SPACECRAFT MODIFICATIONS		

	MANNED SPACECRFT CTR	962,673	962,673
964	SATURN WORKSHOP		

	MARSHALL SPACFLT CTR	211,248	211,248
965	APOLLO TELESCOPE MOUNT		

	MARSHALL SPACFLT CTR	4,990	4,990
975	SPACE STATION		

	NASA HEADQUARTERS	816,356	
	AMES RESEARCH CTR	55,000	
	MARSHALL SPACFLT CTR	139,040	

CUMULATIVE 1959 THROUGH JUNE 30, 1970

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
975	SPACE STATION	(CONTINUED)	

	MANNED SPACECRFT CTR	1,974,018	2,984,414
981	ADVANCED STUDIES-MANNED SPACE FLGT		

	NASA HEADQUARTERS	1,041,177	
	MARSHALL SPACFLT CTR	66,082	
	MANNED SPACECRFT CTR	458,758	1,566,017
991	PAYOUT INTEGRATION		

	MARSHALL SPACFLT CTR	22,000	22,000
996	PROGRAM SUPPORT		

	MARSHALL SPACFLT CTR	60,000	60,000
997	COMMON USE SVC CARRIER ACCOUNT-OMSF		

	MANNED SPACECRFT CTR	543,571	543,571
	GRAND TOTAL		1,049,766,324

APPENDIX 1

DEFINITIONS, NOTATIONS AND ABBREVIATIONS

Carrier Account

Temporary holding account, pending final assignment of funds to proper unique project.

Division

Program Office major subelement responsible for particular scientific or technical area. A resources, control, or management group listed as a division indicates funds held in a carrier account.

FPN

Facilities project number. Four digits. Facilities equivalent of UPN.

Field

NASA Field Installation ("Field Center").

Funding Installation

Headquarters or any Field Installation.

Funding Organization

Headquarters Program Office, Program Office Division, or any Field Installation.

Liquidation

Denotes inactive unique projects. Only disbursements should be made against funds in this category.

Misc. - Hq.

Various Offices

Consolidated listing for Headquarters Staff Offices which fund relatively little university work and which do not report to one of the Program Offices.

Obligation

Amount of funds legally available to an institution through citation on a grant or contract signed on behalf of both the government and the institution.

Program Office

The four Headquarters Program Offices are: Office of Space Science and Applications (OSS&A); Office of Advanced Research and Technology (OART); Office of Manned Space Flight (OMSF); and Office of Tracking and Data Acquisition (OT&DA). For the purposes of the report, the Office of University Affairs (OUA) and the Office of Technology Utilization (OTU) are treated as Program Offices.

Project Research

All support, excluding Sustaining University Program funds. Includes on-board flight experiments, non-SUP facilities required for conducting the work, and dissemination of results and information resulting from NASA-sponsored efforts.

SRT

Supporting Research and Technology.

Sustaining Program

Sustaining University Program, managed by the Office of University Affairs. The Program is divided into three parts: Training (UPN 181), Facilities (UPN 182) and Research (UPN 183).

UPN

Unique Project Number. Numeric designator for unique project.

UPN 000

Numeric designator for consolidation of all UPN's less than 100. Funds in these low number UPN's are not earmarked for particular R&D categories.

Unique Project

Indication of broad scientific or technical area of endeavor, as described by NASA financial coding structure.

University Names

The style and arrangement of university names are in general conformance with government-wide standards, promulgated by the Committee on Academic Science and Engineering (C.A.S.E.) of the Federal Council for Science and Technology. Use of these standards simplifies comparison of NASA reports with reports issued by C.A.S.E., the National Science Foundation and the Office of Education.

APPENDIX 2

DISBURSEMENTS

Disbursements are funds actually paid out by the Treasury. However, the meaning of a particular disbursed amount is exceedingly complex. The next two sections review this complexity as background for the final section on using the tabular disbursement data.

Disbursements - Cumulative Table V

Disbursements and obligations become equal upon completion of all projects at an institution. Disbursements may lag obligations by relatively large amounts. Typical reasons are:

1. Obligations are reported promptly, whereas costs to the institution may not be reflected as disbursements for some time. Billing cycle lags, for instance, are a common cause.
2. Some projects are initially funded for more than one year at a time; subsequent disbursements, however, are made during the entire, multi-year period.
3. Large amounts are usually obligated late in the fiscal year. Disbursements against these obligations generally start after the year-end cut-off for reports in this series which cover a period ending on June 30.

Disbursements - Fiscal Year Table XV

If a university has received its first NASA project during a particular fiscal year, the disbursements will lag obligations for that year for the reasons noted above. For institutions recipient of prior year support, the disbursements may be very close to the obligations and, not uncommonly, exceed the obligations. Typical reasons for this effect are:

1. The year of disbursement is independent of the year of obligation.
2. For projects which started slowly, heavy disbursements began in the year subsequent to obligation.
3. When a year of heavy obligations is followed by a year of light obligations, most of the disbursements in the light year are against funds obligated in the year of heavy obligations.

It should be noted that the factors which cause the tables to show disbursements exceeding obligations are simultaneously being

counteracted by the factors discussed above in relation to the Cum. Table V.

Using Disbursement Data

Disbursement data contained in Cum. Table V must be interpreted with extreme care. On a cumulative basis, disbursements lag markedly behind obligations; hence, data for a particular point in time will show a difference - sometimes substantial - between the two figures. Even for large differences, the cumulative data in this report are insufficient to permit the conclusion that an institution is over-funded or that a reduction in expenditures may be imposed without deleterious effects on the institution.

Valid conclusions on this point can be drawn only on the basis of thorough analyses, on a project-by-project basis, of the technical progress, billing and paying procedures, and the financial status of the work at an institution.

On the other hand, if cumulative disbursements and obligations are very close, it is reasonable to suspect that NASA support to the institution is declining or will phase out unless additional new obligations are made promptly. Cumulative disbursement data are presented primarily as an aid in detecting such situations, particularly when used in conjunction with the fiscal year disbursement data (FY Table XV).

Disbursement data in FY Table XV are extremely susceptible to misinterpretation, especially as disbursements reported are often in excess of obligations. The primary reason for presenting the fiscal year disbursement data is that the total at the end of the table gives the amount of money actually paid out by the Treasury -- "expenditures" -- during the year. For a university whose obligations are very close to its disbursements in the Cum. Table V, a FY Table XV indication of disbursements well ahead of obligations provides strengthened evidence that the institution may be phasing out of the university program.

DATA BASE

The source of the data presented in this report is NASA's Status of Contracts and Grants (SCAG) system, operated by the Financial Management Division and the Procurement Office. The SCAG system includes elaborate arrangements with Field Installations for obtaining fiscal and procurement data on all NASA obligations and for reviewing and editing the received data for correction of reporting errors. The Office of University Affairs is not a prime participant in this accumulation of data by the SCAG system.

As a starting point OUA makes use of the complete, assembled SCAG master file which contains data on NASA's financial dealings with all classes of performers. The OUA system, however, selects from the SCAG master file information descriptive only of obligations to educational institutions. Prior to reports production, each action selected from SCAG is reviewed for correctness and to ensure it meets the inclusion criteria.

The OUA system arranges the selected financial or procurement-oriented data to meet the needs of program managers. For instance, SCAG distributes obligations by place of performance: the OUA system distributes by performing institution.

The SCAG data base does not contain sufficient information to differentiate among the Headquarters staff offices which only occasionally fund university work; the same applies to the fund sources used by these offices. Hence, groups coded "Cog. Office 030" are consolidated as "Misc. Ha." while UPN's under 100 are consolidated as "UPN 000, Miscellaneous Research." The bulk of the obligations, however, are readily identifiable as to source. These are distributed within the various tables based on the funding installation, Cog. Office and UPN as reported in SCAG. There are certain approximations in these distributions due to the numerous changes in NASA's organizational and fiscal coding structures since 1959; the major effects occur in the cumulative report, Tables II and V-VIII. The most frequent change situation consists of abolishment of an organization element, followed by conversion of its Cog. Office and UPN codings to the codings of successor elements.

The unique project names and the Congressional district identifications are taken directly from the SCAG data base.

The various errors detected during the previously described validation of SCAG cannot be immediately corrected in the Master File in which the errors first occur; they are corrected in the next update of the file. Therefore, there are residual errors, however minor, in each SCAG Master File. The OUA system is designed to allow correction of certain SCAG errors, pending the next update of SCAG. Through this process the OUA reports are more accurate than the data bank from which they are prepared.

